



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

NILA GARDENS , PAMPADY POST

680588

www.ncerc.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Nehru College of Engineering and Research Centre (NCERC), one among the top professional institutions in Kerala, run by the Nehru Group of Institutions (NGI), was established on 3rd October 2002 by Late Shri. P.K. Das, a well-known philanthropist and educationalist and the Founder Chairman of Nehru College of Educational and Charitable Trust, that runs over twenty professional institutions spread across Tamil Nadu and Kerala, with an objective to promote high quality and excellence in the arena of technical and professional education.

The campus is built aesthetically on a hilly and greenish landscape that encompasses the banks of the holy river Nila. It is located in a serene, beautiful and pollution free hamlet full of green and lush vegetation. With a perfectly designed and absolutely fabulous infrastructure NCERC is a cut above the rest. It is equipped with well-furnished classrooms, modern laboratories, auditoriums, hostels, subsidized canteens, transportation facilities, Wi-Fi connectivity and a modern library with a rich collection of books. It has got a well-equipped language lab to develop the communication skills of the students. The departments are headed by well-qualified, experienced and committed faculty who are highly professional. International seminars, lectures, workshops, technical exhibitions, co-curricular and extra-curricular activities are organized by the college on a regular basis to enlighten the minds of the student fraternity. The college has, indeed, emerged as a true center of excellence in learning and a research hub for the students and the faculty.

NCERC, well known for its dedicated and committed service to the realm of technical education in Kerala, is an ISO 9001:2015 certified institution, approved by the All India Council for Technical Education (AICTE) and is accredited by National Assessment and Accreditation Council (NAAC). It is also an approved research center that caters to the needs of higher education and research. The institution offers five UG and six number of PG programs and with its state of the art infrastructure, the institution is considered to be one of the top ranking institutions under the APJ Abdul Kalam Technological University.

Vision

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

Mission

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

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

NCERC is one of the top ranking Engineering institutions in Kerala which imparts high quality education in Engineering and Frontier Technology. It is run by a pro-active and visionary management. It is an ISO 9001:2008 certified institution, approved by the All India Council for Technical Education (AICTE) and is NAAC accredited. All the departments are headed by highly qualified faculty. The academic performance of the institution has been outstanding and excellent. The institution maintains proper financial discipline through appropriate budgeting, allocation and strict implementation of the plans. The college is recognized as a Microsoft Edvantage Platinum Campus. Units of National Cadet Corps (NCC), National Service Scheme (NSS) and Community Development Centre (CDC) function in the college. The college has got an excellent infrastructure with the latest lab facilities, well-furnished spacious classrooms, playgrounds, airy auditoriums, hostels, canteens, modern library, Wi-Fi connectivity and efficient transportation facilities. The college is proud of a serene and verdant green campus

Institutional Weakness

Being located in a rural region, the accessibility to the place depends mainly on the availability of the college transportation. The number of sponsored researches, projects and patents can be enhanced. There is lack of autonomy for the college to introduce new courses.

Institutional Opportunity

The college works towards getting accreditation from NAAC and NBA and is pursuing to become an autonomous institution. There is ample opportunity to start recognized research centers for departments to enhance research activity. It can forge a strong alumni network to step up academic and placement activities, and for institutional development. The possibilities to embark on more green energy initiatives for sustainable development are high. It can inculcate a culture of entrepreneurship in rural youth through technology transfer. The institute can collaborate with industries, resource development organizations and educational institutes of eminence for better resource mobilization

Institutional Challenge

In the present scenario it is a challenge to maintain high academic performance and ensure placements in highly reputed companies. It is hard to recruit well qualified and experienced faculty who are Ph.D. qualified, committed and sincere to the profession. There is an increased financial drain due to the change in trend and lack of admissions for engineering. It is difficult to sustain in the competitive field of engineering education amidst the onslaught of foreign institutions and universities.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institute follows the curriculum given by APJ Abdul Kalam Technological University (KTU). A meticulous action plan is prepared by the institution for the effective implementation of the curriculum. An academic calendar is prepared as per the university norms and the requirements at the department level. Faculty members prepare detailed lesson plans, notes of the lessons, power point slides, and course assessment sheets and elaborate question banks well before the onset of the semester. An Effective curriculum delivery is done by the faculty through a well-planned and documented process. Student centered delivery modes using Information and Communication Tools (ICT) are used and lesson notes, handouts, question banks are given to the students. The faculty prepares Course Folders for all the programs and the course file which contains syllabus, lesson plan, time table, course objectives, course outcomes, CO-PO mapping, course materials, and video lecturing (URL), tutorial sheet, assignment and course completion status. Lab manuals, mentoring records, log books, attendance records are maintained properly from time to time. Effective training methods are incorporated in to the curriculum to develop the life skills and soft skills of the student fraternity including proficiency and competence in communication. Curriculum enrichment is done in a variety of ways. The institution integrates crosscutting issues relevant to professional ethics, gender, human values, environment and sustainability into the curriculum. A number of add-on or certificate programs are offered and experiential learning is promoted through project works, field works and internships. Relevant e-materials are prepared and given to the students and the content is also posted on the 'Content Management System' available on the college website. Internal exams are conducted as per the given schedule and are designed to assess the attainments of the course outcomes. An academic audit is done by Internal Quality Assurance Cell (IQAC). The institution has a well-designed feedback system on the curriculum and its delivery from the students, teachers, employees and the alumni. To help the students get more exposure on a wider spectrum and acquire knowledge, guest lectures by experts on various engineering disciplines, workshops, national and international conferences and seminars are organized frequently.

Teaching-learning and Evaluation

The College is committed to mould true citizens through excellence in learning and research in engineering, computer applications and business management. The teaching, learning and evaluation process of the college is meticulously designed and executed to facilitate the students to assimilate the latest technological know-how and expertise in their respective discipline. The college ensures transparency in the admission procedures and the students comprise of diverse mix of ethnic, cultural, religious and linguistic backgrounds. The college recruits well qualified and experienced faculty, who are highly professional, committed and passionate towards teaching and learning, as per AICTE and KTU norms. The subjects are assigned to the faculty members based on their competency, specialization and experience. Well ahead of the start of the semester, training is imparted to the teachers through Faculty Development Programs (FDP). Innovative processes in Teaching and Learning like ICT tools, modern pedagogical techniques and project based labs are adopted by the faculty. Advanced learners are encouraged to attend technical events off the campus where they can meet experts in the field and acquire exposure to entrepreneurship development initiatives. Psycho-social support is provided through active individual and group mentoring with support from professional counselors.

An outcome based education is being followed. A set of program educational objectives (PEOs) and program outcomes and course outcomes are defined well in advance. Before the onset of the semester, faculty members get ready with detailed lesson plans, course assessment sheets, question banks and other relevant materials. Effective curriculum delivery is done by the faculty using ICT tools, modern pedagogical techniques and project based labs. Remedial classes are conducted for slow learners. Feedback is taken from all the students to

identify the drawbacks and deficiencies of the current teaching learning process and take relevant and appropriate corrective measures. Program and course outcomes for all courses offered by the institution are stated and displayed on the website and communicated to teachers and students. The internal assessment is transparent and robust in terms of frequency and mode. The mechanism to deal with internal and external examination related grievances is transparent, time-bound and efficient.

Research, Innovations and Extension

NCERC has been striving hard to promote research and innovation. The college has increased its allocations for research and innovation activities and has tried to link teaching with research. NCERC has created a platform called 'Innovation & Entrepreneur Development Cell' (**IEDC**) where students can showcase their innovative ideas and seek all the support needed for research and innovation from the club. It initiates various activities for the career enhancement of students at different areas like self-employment, start-up initiatives, collaboration with research institutions and other industrial manufacturing related programs. An Internet of Things (IoT) Lab has been set up to enable the faculty and students to carry out their innovative projects and ideas in the field of Internet of Things. IEDC club of NCERC organizes various events like seminars, workshops, national conferences, entrepreneurial awareness programs, inter/intra college competitions to provide a platform for the students to present their innovative ideas. In order to grab the opportunities offered by Kerala Block Chain Academy (KBA) NCERC has joined as a KBAIC institutional member in 2019.

The institution motivates its teachers to carry out research activities by providing facilities in terms of high speed internet connectivity, laboratory, subscription to research journals and providing research incentive, travel allowance for conferences, hosting workshops, seminars, international conferences and talks by eminent people. The faculty is encouraged to publish research papers in refereed national and international journals and present papers at national and international conferences. Students are encouraged to initiate innovative projects and start-ups and take part in Inter-college seminars and workshops on entrepreneurship. NCERC is the only college from Kerala that participated in a satellite project, which developed a small imaging satellite that was launched by ISRO on a PSLV flight. Several service related activities like contributing to the Chief Minister's flood relief fund, participating in flood relief activities, building home for the homeless, donating water filters to schools have been undertaken by the college. Women empowerment programs have been conducted in collaboration with IETE Palakkad. Students from various departments normally do their internships in core companies.

Infrastructure and Learning Resources

NCERC is a cut above the rest with its state of art infrastructure and learning resources. It 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 number of commodious class rooms, seminar-halls, furniture and equipment, laboratories, auditoriums, hostels, canteens, transportation facilities, 64 MBps internet facility with Wi-Fi connectivity and a modern library with ILMS. The entire ambience of the college is clean and fresh. All the infrastructure facilities are provided with a vision to help students excel in their academics and career progression skills. The available physical infrastructure is also optimally utilized beyond regular college hours, to conduct certificate courses, co-curricular activities/extracurricular activities, parent's teachers meeting, campus recruitment training classes, campus recruitments,

seminars and conferences.

The Institution has adequate facilities for cultural activities, sports, indoor and outdoor games, and has got a fully equipped gymnasium and fitness zone, containing all modern equipment in addition to a yoga center. Classrooms and seminar halls are mostly ICT- enabled. For outdoor games institute accommodates a basketball court, badminton court, football ground, cricket ground, Kabaddi court, handball court, hockey ground and a volleyball court. The college has an exclusive language laboratory attached with audio and video facilities for enhancing the language skills of the students. Our institution has seven computer laboratories with adequate number of computers connected through LAN. Scanners, printers and photocopier (Xerox) are made available for the students and the faculty. Institution is under round the clock CCTV surveillance. Rainwater harvesting facility is provided in all the buildings. Tree plantation camps are organized to make the campus clean and green. Repairing and maintaining of all the buildings are done periodically. The college is connected with uninterrupted water supply from our own open ponds and bore well. The college has its own Mechanism of storage and supply of water after due purification. There are two Backup Generators for giving the backup supply to the labs and classrooms.

Student Support and Progression

The practice of social inclusion, financial incentives and welfare measures, scholarships under the name 'Nehru Vignan Scholarship Services' and awards are being extended to the students. Academic support and guidance are provided to the students to help them excel in their studies and in various competitive examinations. Remedial classes and bridge courses are conducted to help slow learners to cope up with their studies. Several co-curricular, extra-curricular and sports activities are being conducted to facilitate a holistic development of the students. The institute has put in place a full- fledged mentoring system. Each faculty member is assigned a specific number of students to keep tabs on matters relating to the student's academic performance, attendance details, disciplinary issues and personality development. A series of workshops, seminars, conferences, soft skills training programs and guest lecture series are conducted to provide hand-on experience to the students. There is also a full-fledged communication lab to help the students acquire the language skills.

Placement services are offered in the college by Nehru Corporate Placements and Industries Relationship (NCPIR) department. Students are adequately prepared to face interviews and group discussions. They are ensured placements in reputed companies through campus recruitment. The academic performance of the students at the university level has been remarkably outstanding with over sixty university ranks and gold medals. Sports and cultural activities are earnestly promoted in the college. Active units of NSS and NCC function in the college effectively. There are many transparent mechanisms like Students' Grievances Cell, Anti-Ragging Cell, Sexual Harassment Prevention Forum, Women Empowerment Cell and Internal Compliance Cell and Anti-ragging Cell, functioning in the college to ensure the welfare of the student community. There is also an online grievance portal displayed on the college website, so that students, parents, teachers and the alumni can register their grievances online. The college ensures the prompt payment of SC/ST/OBC scholarships provided by the state government and the government of India. To ensure the involvement of the alumni the college conducts an alumni meet under the name 'Thirike' (Back to the Nest) every year.

Governance, Leadership and Management

NCERC is striving hard to materialize its vision , mission and objectives in alignment with the over-arching

goals of higher education by way of providing robust leadership, effective governance and a vibrant management. The governance of the institution is reflective of an effective leadership in tune with its vision and mission. All the administrative and academic units of our institution function as per the guidelines of AICTE and ISO 9001:2015 standards. The institution follows the policy of decentralization of power and participative management in academics and in administration in order to develop a sense of belonging and commitment. A truly progressive, dynamic and supportive governing body of our institution has given a free-rein to the Principal to give directives and execute the overall strategic plans in all the academic related matters to bring about a focused growth of the institution.

All the latest facilities, guidance and motivation are provided to the staff and the students to develop their leadership and research interests. Measures are taken by the institution to translate quality to the functioning of its various administrative and academic units. The institute has a well-defined and demarcated organizational structure, objectives, action plan, tasks and schedules. An effective feedback mechanism has been put in place to get a structured feedback from all the key stakeholders. All the relevant files and documents are kept well in order in the institution and a transparent documentation process is followed. The institutional policies, administrative strategies, service rules and procedures are strictly followed and the institution has got a performance appraisal system and effective welfare measures for the teaching and non-teaching staff. HR Policies and perspective plans are rigorously monitored and recalibrated. The institution has a transparent financial management system with effective measures for an intense resource mobilization. Internal and external financial audits are being conducted regularly. Institutional strategies are formulated and implemented for the mobilization of funds and the optimal utilization of resources. The quality assurance strategies and procedures are strictly followed and implemented.

Institutional Values and Best Practices

NCERC is committed to maintain a culture of innovation, creativity, hard work, perseverance and excellence. The motto of our institution is 'molding true citizens', who can contribute immensely for the progress and development of our nation. The main focus is on a holistic development of the students in an eco-friendly campus. The institute takes pride in being located in a verdant green locale close to the river Nila. The motto being, 'Live green, Love Green and Be Green' the institute maintains a spic and span campus and it is far removed from the rough and tumbles of the city. The college has taken some significant measures in energy conservation, waste management, and rain water harvesting and tapping unconventional energy sources. Clean campus, green grounds, social commitment, leadership development and rural upliftment are given prime priority. The institute makes concrete efforts to follow some best practices that can bring about a change in the life of the whole institution as well as the individual stake holders.

Steps are taken to ensure gender equity and sensitization in curricular and co-curricular activities. The institution has got a prescribed code of conduct for all displayed on the website. It celebrates national and international commemorative days, and organizes events and festivals. Safety and security norms are strictly followed and the campus is well protected with round the clock security and CCTV surveillance. Sensor-based energy conservation is done to avoid unwanted usage of electricity and steps are initiated by the institution for the management of degradable and non-degradable wastes and water conservation. Various schemes like, elevation of the underprivileged sections of the society, scholarships to the deserving students, financial aid to the poor students without any discrimination of caste, creed or gender, women empowerment programs, counseling for students and social awareness programs in collaboration with various governmental agencies are being implemented. There are many active clubs, events and forums like NSITE, Karma, Bloom, IEDC, IIC, TBI, and Start-Ups, functioning in the college. The college initiates various projects like the 'Home for the

Homeless' to help the poor and the downtrodden.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE
Address	Nila Gardens , Pampady Post
City	Thiruvilwamala
State	Kerala
Pin	680588
Website	www.ncerc.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	AMBIKADE VI AMMA T	04884-284000	7510882777	-	naacordinator@ncerc.ac.in
Professor	Sudheer S	04884-281670	9656335444	-	hodmca@ncerc.ac.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	06-06-2002

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Kerala	A.P.J. Abdul Kalam Technological University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	15-06-2020	12	one year

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Nila Gardens , Pampady Post	Rural	25.16	26228

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Computer Science And Engineering	48	XII	English	120	77
UG	BTech,Electronics And Communication Engineering	48	XII	English	60	27
UG	BTech,Electrical And Electronics Engineering	48	XII	English	60	14
UG	BTech,Mechanical Engineering	48	XII	English	90	21
UG	BTech,Mechatronics Engineering	48	XII	English	60	34
PG	Mtech,Computer Science And Engineering	24	B TECH	English	18	2
PG	Mtech,Computer Science And Engineering	24	B TECH	English	18	5

PG	Mtech,Electronics And Communication Engineering	24	B TECH	English	18	3
PG	Mtech,Electrical And Electronics Engineering	24	B TECH	English	18	3
PG	MCA,Masters In Computer Applications	36	U G	English	60	5
PG	MBA,Masters In Business Administration	24	U G	English	120	24

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	14				13				110			
Recruited	11	3	0	14	10	3	0	13	57	53	0	110
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				54
Recruited	29	25	0	54
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				43
Recruited	34	9	0	43
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	7	3	0	0	0	0	1	0	0	11
M.Phil.	0	0	0	1	1	0	0	3	0	5
PG	6	0	0	7	2	0	56	50	0	121

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
		0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	470	0	101	0	571
	Female	220	0	41	0	261
	Others	0	0	0	0	0
PG	Male	47	0	3	0	50
	Female	134	0	15	0	149
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	4	3	2	7
	Female	1	2	0	2
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	71	101	40	207
	Female	62	70	48	83
	Others	0	0	0	0
General	Male	44	50	40	152
	Female	33	51	22	93
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		215	277	152	544

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
478	507	558	558	555
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
12	14	15	15	15

2 Students

2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1031	1337	1653	2179	2333
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
264	308	368	380	380

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
450	525	609	674	683

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
125	155	185	213	204

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
137	160	190	219	208

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 54

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
399.42	406.03	484.27	635.33	1841.74

4.3

Number of Computers

Response: 523

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4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

Nehru College of Engineering and Research Centre imparts excellence in education in Engineering, Management and IT. The institution is affiliated to A P J Abdul Kalam Technological University and it follows the curriculum prescribed by the University upholding the institutional goals and concern towards the students.

The institution's aim is to develop and organize various plans for effective implementation of the Curriculum which is to be fulfilled by the Academic Committee. The first step towards this 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 table is 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. 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.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

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
- Dates of module completion.
- Dates of 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

Academic calendar is prepared by Principal, in consultation with HoD(s) .

In the beginning of the academic session the students are apprised of academic

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

at strategic locations. Only head of the institution can incorporate minor changes in academic calendar which he may deem fit considering the unforeseen circumstances. The Schedule of All Examinations is given in academic calendar. The course teachers announce the syllabus and display question bank for

Modules.

Continuous Internal Evaluation

Assignment-I and Assignment-II are given as per the academic calendar. Assignments are submitted by students as per the dates given in academic Calendar. 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 Principal.

The schedules of all examinations like Series I & Series II are given to students through circulars.

Review Questions and study materials for all internal exams are uploaded in icampuz for Learning Management System along with syllabus. For all programmes, the institute conducts 2 internal exams for 50 marks in each semester. Continuous internal assessments and evaluation are as per university norms.

The internal examination time table is displayed in the department one week prior to the day of examinations.

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

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

Assessment process:

1. Tutorial classes are conducted as per the course requirements.
2. Microanalysis 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. The opportunity for revaluation is possible as a grievance measure.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

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 last five years

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

Response: C. Any 2 of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document
Any additional information	View Document

1.2 Academic Flexibility

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

Response: 100

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

Response: 12

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 54

1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2019-20	2018-19	2017-18	2016-17	2015-16
14	9	14	07	10

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Any additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 68.23

1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
727	970	1321	1187	1486

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

1.3 Curriculum Enrichment

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

Response:

Our institution believes in providing a healthy environment to our students to mould them into self-disciplined engineering professionals. Various cross-cutting issues like gender, environment and sustainability, human rights and professional ethics find ample space in the curriculum. The curriculum is set by the university and it does include all these aspects. The courses that support these aspects are:

EN09 302 Humanities

This course supports the concept of human values and encourage students to gain and develop knowledge, conceptual understanding, research skills, analytical and interpretative skills to contribute to the over all development of the students. The course objectives are to identify the most critical issues that confronted

people at particular periods and locations in history, and to identify the stages in the development of science and technology. It also aims at helping the students understand the purpose and process of communication and to produce documents reflecting different styles of communication such as technical descriptions, proposals, narrations and reports. It helps to develop a positive attitude towards life and work and improves self-confidence at workplace.

EN09 402 Environmental Science

This course supports the aspect of Environment. The main objective of this course is to

understand the problems of pollution, loss of forest, solid waste disposal, degradation of environment, loss of biodiversity and other environmental issues and create awareness among the students to address these issues and conserve the environment in a better way.

CS09 405 Engineering Economics and Principles of Management

The main objective of this course is to provide knowledge on fundamentals of economics, forms of business organisations, trade and taxation.

BE 103 Introduction to Sustainable Engineering

Objective of this course is to inculcate in students an awareness of environmental issues and the global initiatives towards attaining sustainability. The student should realize the potential of technology in bringing in sustainable practices.

EE14 805(C) Organizational Behaviour

The main objective of this course is to develop positive attitude, leadership qualities, effective organizational skills and to attain proficiency in communication skills

EE14 705(D) Professional Ethics & HUT 201 Professional Ethics

The main course objective is to enable students to create awareness on Engineering ethics and human values.

MCN 201 Sustainable Engineering

Objective of this course is to inculcate in students an awareness of environmental issues and the global initiatives towards attaining sustainability. The student should realize the potential of technology in bringing in sustainable practices.

HS 210 Life Skills

The course objectives are:

To instill moral and social values, loyalty and also to learn to appreciate the rights of others.

To learn leadership qualities and practice them.

To develop communication competence.

To equip students to face interviews and group discussions.

To inculcate critical thinking skills.

To develop problem solving skills.

To understand team dynamics.

To develop reporting skills.

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

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 2.83

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
14	15	15	16	15

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 54.12

1.3.3.1 Number of students undertaking project work/field work / internships

Response: 558

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni

Response: A. All of the above

File Description	Document
Any additional information (Upload)	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1.Feedback collected, analysed and action taken and feedback available on website

2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

Response: C. Feedback collected and analysed

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

NAAC

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 40.88

2.1.1.1 Number of students admitted year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
215	277	152	544	586

2.1.1.2 Number of sanctioned seats year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
660	768	918	948	948

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 57.47

2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
138	177	90	295	287

File Description

Document

Average percentage of seats filled against seats reserved

[View Document](#)

Any additional information

[View Document](#)

2.2 Catering to Student Diversity

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

Response:

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. Students are empowered to widen their creative and innovative skills which help to develop new projects and products through the Entrepreneur Development Cell of the College. Group Discussion, Interactive sessions, Quiz, Debate, seminar presentation help the students to explore their talents and extend confidence in presenting their ideas and views. **For Advanced Learners** - Based on the academic performance of the students, they are categorized as Outstanding students, Fast learners and Slow learners. They are given more focus to improve their overall performance. These students are always counseled, motivated and encouraged for participating in various national level competitions. These students are trained to develop their inter personal skills with the help of participative and interactive learning methods like group discussion, quiz, debate, paper presentation, mini projects and projects. 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. They are motivated to pursue higher education and are trained to get placements in prestigious corporate companies. Career Guidance is provided by the Placement Cell of the college. The college organizes Bloom – a national level Cultural Fest. It provides golden opportunities for the students to exhibit their cultural talents. The Bloom is providing golden opportunities for the students to excel in the field of creative media and entertainment. The college organizes NSITE – A National Level Technical Fest to exhibit the technical talents of the students. Various innovative projects done by the students are awarded and encouraged. Students organize various technical events and competitions to earmark the latest trends and developments in technology. In addition to academics, extracurricular engagements including Club, Cultural, NSS and Sports activities are conducted to foster the leadership quality, decision making ability, team spirit, socio-psychological awareness etc. for their overall development and a successful career. **For Slow learners** **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 to improve the academic performance of the students. Remedial classes are organized to teach and train slow learners. They learn and clarify all doubts. Remedial Classes are conducted beyond the working hours which is not a part of the regular time table. Slow learners are focused keenly by regular counseling and motivation to boost their morale. They are taught and trained with previous year university question bank. The Parent teacher meetings are conducted frequently to develop good rapport between parents and teachers.

File Description	Document
Upload any additional information	View Document
Past link for additional Information	View Document

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

Response: 8.25

File Description	Document
Any additional information	View Document

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

Response:

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, e-material, e-books etc. Group Learning Method is adopted. Student groups are formed with advanced and slowlearners. The group learning is done in the class room. 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. Students are also given opportunity to take up projects in association with reputed Industry in concerned field. NPTEL videos are arranged for courses which will help students to have deeper understanding of the subject concepts. As a part of Industry-Institute Interaction, Industrial visits are arranged for all classes which will help students to understand the manufacturing and factory floor processes. **Experiential learning:** For core subjects laboratory classes are conducted to experiment the principles studied in theory classes. The sessions involve practical training. They can design the circuit and test the same, develop the program and run the same or wire up the circuit and run the machine depending on the subject. The results and observations are noted by the students which are examined by teachers for correctness. The pre final year students are involved in Design Project where in they inculcate the design aspects of engineering in various real time applications. Other opportunities provided for experimental leaning is through Industrial visits arranged for all students in the prefinal year and project works taken up by students as a part of curriculum. Beyond curriculum, Innovative Projects are also encouraged from student community under the guidance of Entrepreneur Development Cell of the college. **Participative learning and problem solving methodologies:** Seminars and trainings are conducted for the students to improve their technical and interpersonal skills. Comprehensive exams are conducted to evaluate the technical knowledge of the students. Class room sessions also engage in participative learning by Group Discussion and Brainstorming sessions. Case studies are discussed to enable the students to understand the concepts in depth. Design project in third year provides an opportunity for Engineering students to design and present an innovative idea which will improve their analytical and logical skills. Each department effectively organizes various

technical events and competitions under the banner of Technical Associations and Students Chapter of Professional Bodies. Some of the Professional Bodies active in the college is SEEM, Computer Society of India, National Institute of Personal Management, MCA Association, Thrissur Management Association, Palaghat Management Association. Some of the Technical Association of the college is Enigma, Impulse, Power Gale, Karma. 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	Document
Upload any additional information	View Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

ICT assisted teaching methods are practiced by all faculty members. 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 which is not the solitary source of information or knowledge for them. Students are encouraged to attend NPTEL lecture classes and read scientific publications for advanced topics in the syllabus. In the advanced topics, students who are identified as 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 encouraged to do extensive search on the recent trends in their area of interest in their own discipline and interdisciplinary departments. They are insisted to refer latest research papers in reputed international journals to identify the topic. Each student will make a 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 also prepare for GATE, competitive exams and placement activities through these mode of study. ICT is enhancing learning experiences and facilitating learning without time constraints. The learning activity of the student is becoming flexible and smoother.

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

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)**Response:** 10:1**2.3.3.1 Number of mentors****Response:** 108

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality**2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years****Response:** 96.16

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)**Response:** 6.8**2.4.2.1 Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
10	11	12	15	11

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

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

Response: 5.97

2.4.3.1 Total experience of full-time teachers

Response: 746

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

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

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 as per APJ Abdul Kalam Technological University, Kerala.Series Test is conducted for a duration of 90 minutes . Each series test is conducted for a marks of 40 . The portions from the first and second modules are covered in Series Test I. The portions from the third and fourth modules 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 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. During the academic year 2019-20, the regulations for series test has been changed by APJ Abdul Kalam Technological University, Kerala. Series Test is conducted for a duration of 120 minutes. Each series test is conducted for a marks of 50. The portions from the first three modules are covered in Series Test I. The portions from the last three modules are covered in Series Test II as per the norms laid out by the affiliating University.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

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

Response:

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. If the students fail in the end semester examination conducted by APJ Abdul Kalam Technological University, the students can apply for revaluation as well as revaluation cum photocopy of answer scripts. The results will be published after revaluation. The students who have applied for photocopy of answer scripts will get the soft copy of the answer scripts applied in their KTU student login id. The students and the subject faculty member can verify the answer script received. If the student clears the subjects in revaluation, APJ Abdul Kalam Technological University will refund the amount of revaluation to the students. The details of refund will be published by the APJ Abdul Kalam Technological University.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

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.

Response:

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. The PO's, PSO's and CO's are formed by considering the Vision and Mission statement of the college and the syllabus content. The CO's are framed by the Heads of the department with the help of faculties handling respective subjects and also experts in the particular subject. Course committee meetings are conducted at regular intervals and the institute assists the faculty members to achieve these objectives by proper supporting systems. The CO's are explained to the students in the class after teaching each topic in the class rooms. The CO's are also present in the series test examination question papers. The student is well aware of the CO's of the subject. The PO's and CO's are available in the course file prepared by the faculty member while mapping with PO's. The faculty understand the course outcomes accordingly and prepare the lesson plan. PO's and CO's for all programs and courses offered by the institution are displayed in the institute website for reference of all stakeholders. The PO's and CO's are displayed in all classrooms and laboratories. The CO's are published in Academic regulations and Curriculum book, and in institute website. They are made reachable to all the stake holders of the program through, faculty members, student awareness workshops, student induction programs and faculty meetings. All the planning and execution are directed towards meeting these objectives. The program outcomes and program specific outcomes are achieved through a curriculum that offers a number of courses. 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 thus directly and quantitatively assessed, and mapped to the program outcomes and program specific outcomes. Therefore if the course outcomes are attained, they provide direct quantitative evidence that program outcome is attained. 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 oversee whether they are in tune with the learning outcomes. The importance of employability is insisted upon as one of the main learning outcomes. Faculty members write CO's of their respective course and refer them while executing the course plan. Faculty members refer the syllabus to understand PO's and CO's thoroughly before delivering the courses to students. Reviews of these PO's and CO's are taken by the stakeholders and suggestions are discussed in meetings. The improvements are implemented in all the academic activities.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document
Past link for Additional information	View Document

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

Response:

The course outcomes are assessed with the marks of two series tests , two assignments and university results. The marks for each series test is 40 . The portions from the first and second modules are covered in Series Test I. The portions from the third and fourth modules are covered in Series Test II.

The marks for each assignment is 30 . The portions for first assignment is covered from the fifth module and the portions for second assignment is covered from the sixth module.

During the academic year 2019 -20 , 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. Therefore if the course outcomes are attained, they provide direct quantitative evidence that program outcome is attained.

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 oversee whether they are in tune with the learning outcomes. The importance of employability is insisted upon as one of the main learning outcomes. Faculty members write COs of their respective course and refer them while executing the course plan. Faculty members refer the syllabus to understand POs and COs thoroughly before delivering the courses to students.

Reviews of these POs and COs are taken by the stakeholders and suggestions are discussed in meetings. Revisions are done wherever required.

PO CO attainment level details are submitted to the Principal Office through the Head of the departments. Reviews are done to focus on analytical subjects and result pulling subjects so as to improve the CO PO attainment levels and thereby enhance the academic performance of the students and also improve the overall pass percentage of the subjects.

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 82.53

2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
425	392	450	574	577

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
450	525	609	674	683

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Upload any additional information	View Document
Paste link for the annual report	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.54

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document
Upload any additional information	View Document

NAAC

Criterion 3 - 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, Chairs in the institution during the last five years (INR in Lakhs)

Response: 0

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	00	00	00

File Description	Document
List of endowments / projects with details of grants	View Document
e-copies of the grant award letters for sponsored research projects / endowments	View Document
Any additional information	View Document

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

Response: 0

3.1.2.1 Number of teachers recognized as research guides

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 0

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

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

3.1.3.2 Number of departments offering academic programmes

2019-20	2018-19	2017-18	2016-17	2015-16
08	08	8	8	8

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Any additional information	View Document
Paste link to funding agency website	View Document

3.2 Innovation Ecosystem

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

Response:

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.

IoT Lab has been started in 2018 to enable the students & staff to carry out their innovative projects & ideas in the field of Internet of Things.

In order to grab the opportunities offered by Kerala Block chain Academy (KBA) NCERC joined as a KBAIC institutional member in 2019.

EDC has created a platform like IDEABOX through which different perspectives of students' research ideas are received. On the basis of qualitative and quantitative outcome based, ideas are shortlisted and suggested for incubation and development. EDC encourages on establishing different clubs constituted by the students thereby favouring the students by providing guidance on healthy innovation interactive sessions. Further these discussions are converted into innovative projects and other development activity in the research context.

EDC guides both faculty and students on Intellectual Property Rights, Patentable research & Skill based training programmes for lifelong learning. Over and above the institution is having various verticals on research establishment by starting up incubation centres, R & D Councils, Research laboratories and social needs as and when addressed through converting research into a reality by proper systematic provisions.

Programmes conducted

1. Three days Entrepreneurship Orientation Programme organized jointly with Kerala Industrial and Technical Consultancy Organisation Limited (KITCO Ltd.) on 8th , 9th and 10th October 2015.
2. One Day Mentorship programme for STARTUP 2016 organized by Entrepreneurship Development Club of NCERC on 19th February 2016. The Workshop was conducted by Mr.K. Rajesh . Founder of Programmed V.
3. Four days workshop on Entrepreneurship Development And Career Planning was organised from 27th June 2016 to 30th June 2016.

Studen t's & staffs Achievement

1. Student team from Nehru College of Engineering and Research Centre, Pampady, Kerala won silver award worth Rs. 1 lakh for their project “IC engine efficiency increase without compromising present engine design” in KPIT sparkle 2016
2. Team NCERC consists of 5 Students got First prize in “3 Days workshop on Entrepreneurial skills & B-Plan Competition” Conducted by Mohandas college of Engineering & Technology on 13th to 15th July 2016.
3. Mr. Vishnu, Alumni, CSE Dept, NCERC, Pampady has started a company named ‘QUAD PROSO’
4. Eleven students along with Nodal Officer participated in State level IEDC Summit 2016, which was presided by Chief Minister of Kerala at Thiruvananthapuram on 23rd August 2016.
5. Mr.R Unni & Mr. R.Rahul (Assistant Professors ,NCERC) has attended “2 weeks FDP on Entrepreneurship” Organized by Nehru group of institutions- Technology Business incubator (NGI-TBI) During 2nd to 15th January 2019.

The COVID-19 pandemic has affected the world in an unprecedented manner and Our students

has developed 5 innovative Projects which are very useful During Covid19.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 31

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

2019-20	2018-19	2017-18	2016-17	2015-16
07	10	2	2	10

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document
Any additional information	View Document

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 0

3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

3.3.1.2 Number of teachers recognized as guides during the last five years

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document
URL to the research page on HEI website	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years**Response:** 0**3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
0	00	0	00	00

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**Response:** 0.19**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 last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
05	09	06	09	04

File Description	Document
List books and chapters edited volumes/ books published	View Document
Any additional information	View Document

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 last five years.****Response:**

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

Women Empowerment Programme IETE 3rd & 4th - Palakkad Centre

IETE Palakkad conducted a program on the subject “Women Empowerment : Role of Social Justice and Cyber Security” jointly with Al- Ameen Engineering College and Nehru College of Engineering and research Centre on 16th March 2018. Sr.Gr.APP Sri. P Prem Nath detailed the real incidents taking place in the society harassing the women irrespective of the age group. Sri. C K Haridas IETE South Zone Mentor participated in both the events. Dr. K Geetha Principal, Al – Ameen Engineering College, Prof. Bindu, Dr. S Raj Kumar, HoD ECE Dept. NCERC, Pambadi, Asst. Prof. Jithin Jose Kallada, ISF Coordinator of the College, Sri. V Vishal Kumar , Joint Secretary ISF spoke on the occasion.

Flood Relief

The students have done work in connection with the packing and distribution of flood relief materials on 28th ,29th ,30th and 31st of August 2018 at Government Engineering College, Thrissur. College spared our bus for transporting the relief materials from the distribution centre to the flood affected areas. Three faculties and 70 students had participated in the work related to relief and rehabilitation.

Water Filter to GHSS Pampady

The extension activities are carried out in the neighbourhood community. Nehru college of engineering and research centre donated a water filter to GHSS School Pampady.

Charity Home

In memorial of our founder chairman P K Das a dream home was constructed and granted to Nadhakumari and her family at Thiruvillawamala. The key functioning of 750 square feet home was held by Swami Santhachithynaya. The speech was held by administrative manager Sreenivas, Director R C Krishnakumar and president of cooperative bank Divakaranunni.

Nathakumari has secured full A plus in SSLC. And the CEO of Nehru group of institution Krishnakumar announced that she can select any institution under Nehru group for her higher studies with out any fee.

Bus Waiting Shed

The panchayat gave approval to Nehru group of institution to build bus waiting sheds and welcome boards. In Palakkad Kullapulli road we made three new waiting sheds , added to that eight old waiting sheds were modified. And in Kuttupatha Thiruvillawamala road we build six waiting sheds and moreover new welcome boards were placed at five places.

VIMUKTHI

Nehru College of Engineering and Research Centre along with the Excise department of Thrissur District have jointly conducted an anti-drug awareness class in schools as a part of state government programme “VIMUKTHI” 2019-2020. It was 90 days. We have invited for 75 schools under various excise Excise range offices and successfully conducted in 43 schools. Through this programme we have collected data of 4000 students.The Excise department specially congratulated the principal for our sincere efforts to conduct such a programme to educate the youngsters about the consequences of drug abuse in the society and to mould them in to responsible citizens.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years**Response:** 0**3.4.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)**Response:** 43**3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
12	14	1	8	8

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document
Any additional information	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years**Response:** 15.1**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 last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
274	258	198	187	212

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document
Any additional information	View Document

3.5 Collaboration**3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year****Response:** 169**3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
40	45	66	18	0

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

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years**Response:** 17**3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
1	7	7	1	1

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document
Any additional information	View Document

Criterion 4 - 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.

Response:

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 available physical infrastructure is optimally utilized beyond regular college hours, to conduct certificate courses, co-curricular activities/extra-curricular activities, parent's teachers meeting, Campus Recruitment training classes, campus recruitments, seminars, conferences etc.,

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.

The college has exclusive language laboratory attached with audio and video facilities for enhancing students to gain knowledge. Our institution has seven computer laboratories with 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, etc., which are necessary for teaching and learning. The area of each computer laboratory is 120 sq. meters. The College ICT facility includes projectors, wireless microphones, sound systems, marker boards, public addressing system, desktop recorder and video recorder with internet facility to conduct lectures, seminars, webinars, conferences, guest lectures, and workshops.

Library

The college has a central independent library with plinth area 9000 sq.ft with all modern facilities. The books in the general library are categorized as Reference and textbook. Access to the library is managed by using ID card. 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 related to various aspects of engineering and technology; industry related topics, general books and **4576** reference books are also available. The library is constantly updated with the latest Magazines, National & International journals, Reference books and other material at regular periods. 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. We have Core reference collection of McGraw

Hill, Springer and Elsevier, chronicle, cengage learning is also available for all students to upgrade their knowledge. 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.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response:

NCERC encourages and provides facility for students to participate in various extra-curricular activities in order to take care of physical wellbeing and provide entertainment outlet. A team of faculty members and students are involved in cultural, sports and extra-curricular activities of the college.

Gym

Reaffirming the proverb, “Health is wealth” the college Fitness Center houses an ultra-modern gymnasium, catering to the needs of the fitness enthusiasts. 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. This area (comprising nearly 100 sq. meters) has a range of 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. Separate court for volley ball, basketball, & Badminton are available. Students are encouraged to participate in outdoor sports and games. Every Year Inter-house competition for indoor and outdoor games is conducted and the winners are honoured on the sports day celebration organized. Volley ball tournament and badminton tournament is held often. Indoor competitions such as chess, carroms are also organized for student participation.

Cultural Activities

The institution boasts of huge, commodious Brahmagupta Auditorium having a seating capacity of around 800 people. It is used for conducting seminars, workshops, conferences, cultural events/activities and co-curricular activities. The college has a committee for conducting cultural activities. This committee along with staffs and students of the college organizes an annual cultural function named BLOOM. The aim of BLOOM is to provide a platform for students to showcase their talents and organizational skills. The students organize & participate in many cultural activities like group dance, skits, MIME, Debate, Street Play, face Painting, Drawing etc., during the cultural day. The college also organizes Annual day function every year where the students to participate many cultural activities with zeal and enthusiasm. To broaden the horizons of the students, they are encouraged to participate several inter-colligate events.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 92.59

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 50

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 18.48

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
25.37	27.7	14.8	67.98	1205.4

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

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

Response:

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. The library to cater to the needs of faculty members and students with access to books and journals. The students are encouraged to utilize the learning materials available in the library. The faculty and students refer the print journals to publish/present technical papers. The central library functions on all days except Sundays. The books in the general library are categorized as Reference and textbook. Frequent book exhibitions on campus facilitate faculty members to select the books of their choice which is needed for teaching. Students can borrow books using the ID card issued by the college. 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) . E-Learning Resources, like EBSCO and J-Gate are available in the Library, which is being effectively used by the Faculty and Students. There is a well-equipped Digital Library available in the Institute. The entire library is fully automated by software called **KOHA LIBRARY SOFTWARE**. The NCERC library is well stacked with 28309 textbooks related to various aspects of engineering and technology; industry related topics, general books and **4576** reference books are also available. The library is constantly updated with the latest Magazines, National & International journals, Reference books and other material at regular periods. 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. We have Core reference collection of McGraw Hill, Springer and Elsevier, chronicle, cengage learning is also available for all students to upgrade their knowledge. 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.

Library Service Type		
Text Books	28309	9832171

Reference	4576	2485642
Books		
e-Books	1197	0
Journals	235	254646
e-Journals	2	180127
CD & Video	2418	0

NAAC

- **Name of ILMS software : KOHA**
- **Nature of automation (fully or partially): Fully**
- **Version: 19.11**
- **Year of Automation: 2018**

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 14.37

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

2019-20	2018-19	2017-18	2016-17	2015-16
9.88	11.36	13.37	22.15	15.11

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the last completed academic year

Response: 33.56

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

Response: 388

File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The college has exclusive language laboratory attached with audio and video facilities for enhancing students to gain knowledge. 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, etc., which are necessary for teaching and learning. The area of each computer laboratory is 120 sq. meters. The institute has sufficient number of drawing halls with drawing tables for accessing students. Our institute boasts of huge, commodious Brahmagupta Auditorium having a seating capacity of 800 people to conduct various curricular and co-curricular events. The College ICT facility includes projectors, wireless microphones, sound systems, marker boards, public addressing system, desktop recorder and video recorder with internet facility to conduct lectures, seminars, webinars, conferences, guest lectures, and workshops.

- The college upgraded the internet speed from 32 Mbps to more than 64 Mbps on 14-9-2016. All the computers of the institution are enabled with LAN connection .The total bandwidth is divided for all the computers through LAN and also through Wi-Fi hotspots. Eight Wi-Fi access points have been installed at various places.
- We have totally 620 computers with configuration of Intel Core2Duo/2.40GHZ/1GB RAM/160 GB SATA HDD/ Intel Onboard E'Net. All the staff members are having unique Nehru domain user-name and password for storing their data. We are having separate team called IT Help Desk to troubleshoot all IT related issues.
- The institute tied up with Microsoft to start a Microsoft Information Centre (MIC) to develop the skills in students.
- Institute frequently updates all the open source software like Scilab, GCC, maxima, etc., as per AICTE guidelines.
- College ICT facilities like LCD projector, desktop recorder, mics, audio systems, etc., are updated frequently.
- The scanners, printers, photocopier (Xerox) facility is available for students and faculty members.
- IT infrastructure facilitates are audited every year and internal audit report is prepared to include the amount required to updated IT facilities in the next academic year budget.

NCERC has well equipped and maintained Air Conditioned Laboratories powered with efficiently configured computers that are equipped with various software's and other tools relevant for the syllabus. Internet, Wi-Fi, and Laboratory facilities are available for staff and students round the clock. We are

facilitated with all the programming languages like Python, C, C++, Java, HTML, PHP, etc. and also tools like digital forensic and cyber security related ones that are provided under the five labs namely Advanced System Software Lab, Advance Computing Lab, CASIT Lab, Web Technology Lab, Computing Lab and Cyber Security Lab along with the Net Lab that students use for their project and seminar related works.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 1.97

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Response: A. 750 MBPS

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

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 13.7

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
78.81	73.45	77.69	64.27	83.31

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

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.

Response:

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 equipments 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 & RESPOSIBILITIES

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

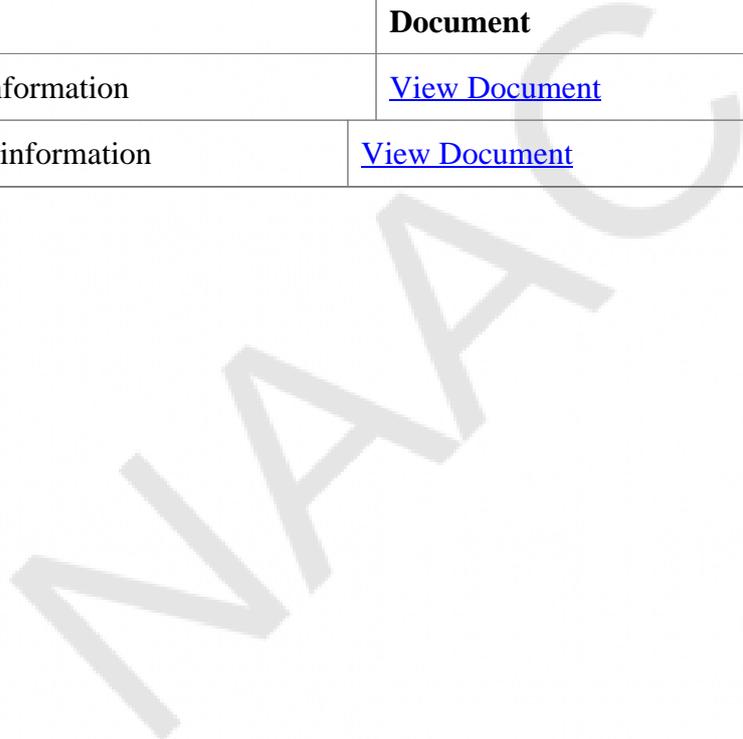
- Maintaining and administering the entire civil construction works, planning, designing, checking the quality and quantity of the materials used and workmanship, coordinating with Architects, Engineers, Consultants and Contractors with respect to all the works.
- Look after and coordinate the entire 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	Document
Upload any additional information	View Document
Paste link for additional information	View Document



Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 19.86

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
140	252	323	459	613

File Description

Document

upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)

[View Document](#)

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 0

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description

Document

Upload any additional information

[View Document](#)

Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)

[View Document](#)

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: B. 3 of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 32.41

5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
472	523	497	513	549

File Description	Document
Number of students benefitted by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

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

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 24.63

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
63	277	168	53	143

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 17.33

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 78

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	View Document
Any additional information	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 56

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.) year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
3	3	8	0	2

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
4	4	10	3	4

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	View Document
Any additional information	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be

counted as one) during the last five years.

Response: 0

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) year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
00	00	00	00	00

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

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

Response:

For the proper conduct and functioning of the institution we have an active participation of students in various administrative activities like;

Students Council: All the class representatives, Dept. Association Secretaries , Club Coordinators, Sports & Games Secretaries & House Captains, Men & Women Hostels Representatives, Cultural Association Coordinators, Fine Arts coordinators, NCC & NSS Coordinators, Career Guidance Cell coordinators are the members. Two meetings will be conducted in a semester. Student members share their ideas / suggestions for overall improvement of Curricular, Co-curricular and extra curricular activities of the college through various cells.

1. Class committee and course committee: In our college we are conducting department wise class committee meetings and subject wise course committee meetings for the evaluation and the good

conduct of classes, for that each committees should have three to four student representatives and faculties. Students suggestions and opinions for the welfare of the class are recorded and remedial measures are taken frequently.

2. **Students welfare cell:** we have a well-structured and functioning students welfare cell, in each semester we are conducting at least two meetings and collect the student grievance from students representatives of the committee and remedial measures are taken appropriately.
3. **Department Association:** In Each department we have students association for organizing various technical events like seminars, workshops, conferences etc... President and secretary of the association will communicate with department heads and organizes the various technical events .
4. **Women Empowerment cell and Internal complaint Cell:** For the awareness of gender equality and women empowerment we had a well-functioning women empowerment and internal complaints cells, for the collection of student grievances and problems facing by our female students. The student representatives of the cell will represent their problems in the meeting conducted twice in each semester and remedial measures also taken frequently.
5. **Hostel and canteen committee:** For the welfare of hostel students we have a hostel and food committee with the representation of students and faculties. The meeting was frequently conducted for the good functioning of hostel and mess facilities provided by the institution.

Our students had good role in co-curricular and extracurricular activities like arts, sports, MooC, Technical events etc... organized inside and outside the institutions.

We have a physical education department for the training of athletics and games skills in the students. Apart from that we have a committee for arts and sports with students and faculties representation. The committee organizes meetings and collect the students issues related to sports and cultural activities. The committee had the responsibility for conducting the selection of students in various games, organizing annual sports and athletic meets etc...The students are promoted to participate in the various inter college athletics and games meet through physical education department of the institution.

Social Committee: NSS committee seeks to integrate social responsibility with personality development. These committees are active in organizing several extension activities like Tree Plantations, Blood Donation camps, Swach Bharat campaign etc.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 11.8

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

2019-20	2018-19	2017-18	2016-17	2015-16
15	15	13	11	5

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

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

Response:

NCERC Alumni Association to coordinate and support the alumni activities to promote Institution's academic, soft skill of the student, industry interface, placement/internship, research, and outreach programs to facilitate communication with alumni and to strengthen alumni bonds of fellowship, professional association, and institutional affiliation.

Alumni Association of NCERC has applied for registration under updated APJKTU guideline and Memorandum of Association had signed with registrar department, government of Kerala

Objectives of the NCERC Alumni Association:

The following shall be aims and objectives of the Association

- 1.To facilitate interaction between Alumni and Departments of Nehru College of Engineering and Research Centre.
- 2.Promote research and academic activities.
3. Organize social and cultural activities that bring together Alumni, Current scholars and the fraternity of Nehru College of Engineering and Research Centre.
- 4.To encourage and appreciate academic and other outstanding achievements of the Departments/Faculty.
- 5.To establish endowments and scholarships.
- 6.To award incentives/prizes for outstanding contributions of scholars.

7. To aid in improving and updating academics, using their experience and knowledge.
8. Aid fresh graduates and postgraduates in finding job openings and entrepreneurship opportunities by coordinating with placement cell and other academic works.
9. To conduct health awareness and camps.

The 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.

1. To facilitate interaction between old students of the entire Departments of Nehru College of Engineering and Research Centre.
2. To promote and support research and academic activities of the college teaching departments of the campus.
3. To promote social and cultural activities of former and current students of the Departments of College Campus.
4. To encourage and appreciate academic and other outstanding achievements of the Departments/Faculty.
5. To establish endowments and scholarships.
6. To award incentives/prizes for outstanding contributions of scholars.
7. To act as a discriminating agency for transmitting knowledge, help the students to find out job opportunities through placement cell and other academic works in India and abroad. To provide service to the people.
8. The Association shall be non-profit sharing and no member shall have any proprietary right or interest in the assets and liabilities of the Association.

Governing body/ Executive members of NCERC alumni Association:

The Association shall be governed by a Body of Executive Committee consisting of 10 members elected by the General Body in addition to 1 President; 2 Vice-President; 1 Secretary; 2 Joint Secretary, 1 Treasurer and 16 Executive Members.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: E. <1 Lakhs

File Description	Document
Upload any additional information	View Document
Link for any additional information	View Document

NAAC

Criterion 6 - 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

Response:

VISION

To mould true citizens for tomorrow 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 in a positive manner. 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. The leadership of the institution is spear headed by the Chairman and Managing trustee who is the highest authority in making administration decisions. The system created by the Head of the Institution under the guidance of the Chairman and managing trustee in-order to attain the Vision is as follows:

The holistic and transparent system

Principal provides a platform for faculty members to interact in the form of faculty meetings and HOD meetings. Faculty members provide constructive suggestions and steps to be taken for the improvement of the academics and non academic activities. These suggestions and steps are passed on to the management for appropriate decision making and implementation. With the support of the affiliated university and the faculties an academic calendar is prepared and implemented. In addition, faculty members are serving as members of various committees formed at department level and institution level where the decisions and

opinions of committee members play crucial role in decision making. All important and crucial decisions are made by the principal with the approval of HODs and are implemented by the faculty members. In addition to this team effort to create a transparent system the institution also conducts internal and external audits both in academics and financials so that proper governance is practiced. The institution also has an internal quality assurance cell which monitors and guides all the academic and extra-curricular activities. The guidelines put forward by different accreditation bodies like NAAC, NBA, ISO are also given prime importance while running all the academic and non-academic activities. Overall a clear system is in place to achieve the Vision, Mission and objectives of the institution thereby satisfying all the stake holders of the institution.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response:

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. The following committees are in existence to decentralize the academic and administrative activities.

- Disciplinary and Anti-Ragging Committee
- Grievance and Redressal Committee
- Examination Committee
- Entrepreneurship Development cell
- Training and Placement Cell
- NSS Committee
- NCC Committee
- Mentoring and counseling cell
- Governing council
- Finance committee

All the above committees are functioning under the supervision of principal and coordinated by team experienced faculties. 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. The management gives a lot of importance and weight-age to students and faculty suggestions. This is definitely a positive

encouragement for the faculty members and a crucial decision by the management.

Decentralized decisions

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.

The college has also started a series of faculty development programs under the title PRABHODITA in the year 2016 to instill various skills and knowledge in faculties at the request of the teachers. Prabhodita was conducted in the years 2016, 2018 and 2019. It was organized with the support of Jawaharlal College of Engineering and Technology. Various renowned academicians visited the college and conducted sessions. It provided a platform for faculty members to clear doubts and strengthen their intellectual capabilities.

Prabhodita 2016 was organized in 3 phases. It mainly focused on improvement of classroom sessions and it gave tips on how to be an effective teacher. The various topics handled were:

- Effective teaching methods
- Body language
- Inner strength
- Power stories
- Learning styles

Prabhodita 2018 mainly focused on creating a clear outlook of outcome based teaching as per the National Board of Accreditation. Different sessions on self-assessment report and required documents were discussed. Prabhodita 2019 focused on new generation teachers, redefining teachers and the role of these teachers in the society.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

Yes the institution has a clear strategic plan which guides all the activities of the institution. The strategic plan has been created to achieve the Vision and Mission created by the stakeholders. These plans are approved by the Principal of the institution and are implemented.

One such implementation of a strategic decision is the establishing of the Internet of things (IOT) lab in the campus. The Entrepreneurship cell, Management and Principal worked together to drive and implement the processes of establishing an IOT lab in the institution. The research and development cell of Nehru group of institutions organized Technology based entrepreneurship development program on Internet of things in the year 2019 at NCERC which culminated in establishing the IOT lab. This IOT lab was sponsored by National science and technology entrepreneurship development board (NSTEDB) New Delhi and Entrepreneurship development institution of India. Students can make use of the lab to do projects in Raspberry Pi and ARDUINO. Both theoretical and practical training are given to students in these areas in the IOT lab.

The objectives of IOT lab

- To gain knowledge about Arduino and raspberry pi.
- To implement real time problems and analyze it practically.
- To study automation on various instruments.
- To understand the cloud data management using pi.
- To understand the real time monitoring of various equipments.

IOT lab details

It is located the Aryabhata block (main block).It has the following facilities

- Raspberry Pi 3 Model B
- Uno R3 Arduino Compatible Board
- Bread Board – 840 Pin (GL-12)
- Sensors
- Other accessories.

The Entrepreneurship cell has funded and conducted lot of activities like

- 1.Three days Entrepreneurship Awareness Camp was held at Nehru college of Engineering and Research Centre on 26th,27th, and 29th September 2018.
- 2.Three days Entrepreneurship Awareness Camp 2 was held at Nehru college of Engineering and Research Centre on 10th,11th, and 12th October 2018.
- 3.Three days Entrepreneurship Awareness Camp was held at Nehru College of Engineering and Research Centre on 29th, 30th, and 31st January 2019.

Strategic Plan

The road map for the institution gives a clear and transparent direction for the growth of the institution. The next five years is a crucial period in the college's growth. The following are the strategic steps to be taken to in order to grab the opportunities:

- To create Centers of Excellence in Research, Entrepreneurship, Management and Technology.
- To create right ambience for operation of the above Center of Excellences.
- To increase Industry interaction and Consultancy services

- To create the most sought after destination for the best teachers by establishing proper faculty training excellence center and perfect environment for growth of teachers.
- To create a system which offers the best learning platform for students by incorporating academic, sports, arts and other extracurricular activities together in students campus life.
- To create an online database of subjects thought in class-rooms.
- To create practical facilities for students and faculties that creates innovative and creative products and services for the society.

File Description	Document
Upload any additional information	View Document
strategic Plan and deployment documents on the website	View Document
Paste link for additional information	View Document

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.

Response:

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 The Chairman & Managing Trustee, The 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 Heads of the Departments 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 Faculty in-charge and approved by Principal and HODs. Preparation of Department Level Academic Calendar and Time Table, Course Plan, Planning, Allocation and Utilization of Human Resources, Planning, Procurement and Utilization of Department Level Infrastructure/Labs/Equipment are done by the respective departments and approved by HOD, Principal of the institution. Identification of Class Advisors and Mentors and allocation of students to Mentors, Chairing Department Review Meetings and Class Committee Meetings, Identification and provision of co-curricular programs, Approval of student, staff leave and on duty requests, Identification and monitoring of staff competency enhancement initiatives, reviewing and monitoring of support initiatives for slow Learners, reviewing and monitoring of support initiatives for advanced learners are also prepared by department faculties and approved by HOD

and Principal. Faculty and non teaching staff requirements for the forth coming academic year is prepared by HOD and approved by Principal. The Grievance and Redressal committee enquires the complaints from representatives of the students forwarded by the Principal.

All activities of the department like timetable preparation, subject allocation, activities allocation, placement trainings, social development programs, faculty development programs, field trips, internships, projects are prepared by the faculty in-charge and approved by HOD and Principal. Non teaching related activities plan is prepared by the Administrative in-charge and approved by campus manager and Principal. University related requirements are prepared by the university in-charge and approved by Principal.

It is the responsibility of all employees to:

- Foster and maintain cohesion, cooperation, fairness and transparent communication among each other.
- Respect and follow the instructions of the immediate supervisors.
- Treat each other a manner, with dignity and respect.
- Evolve and promote peace, harmony and teamwork in all relationships.

File Description	Document
Upload any additional information	View Document
Link to Organogram of the Institution webpage	View Document
Paste link for additional information	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP (Enterprise Resource Planning) Document	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

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

The teaching and nonteaching staffs are equally important for the smooth functioning of an education institution. Nehru College of engineering and research centre gives maximum support for the welfare of all the staff members. All these measures are to improve the lifestyle of the staff members and to boost their morale. Following welfare schemes are available for teaching and non-teaching staff:

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 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.

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	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 1.3

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

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	4	4	5

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 10

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

2019-20	2018-19	2017-18	2016-17	2015-16
9	13	11	8	9

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

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 21.34

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation /

Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
28	35	42	81	02

File Description	Document
Upload any additional information	View Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View Document
IQAC report summary	View Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff**Response:**

The performance Review document will be a live document for each employee. A comprehensive performance appraisal review report has to be submitted by every employee, each year. This review report format will be different for academics and administration. The following system of appraisal is followed:

- 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. The teachers are also required to update their resume by doing

research and enrich themselves by these actively doing the following:

- Paper Publication- Journal/Conference
- Patent – Apply/Sanction
- Testing /Consultancy
- Conduct/coordinate – Conference/Seminar/FDP/TEDx/Hackathon/Workshop/any similar event.

An Employee who is successfully completed his/her probation period and whose appointment is in the permanent vacancy has been confirmed by the Chairman & Managing Trustee/Management and written confirmation order will be issued.

PROMOTIONAL POLICES

Teaching Staff: Promotions to higher positions are considered strictly as per the All India Council for Technical Education (AICTE) and the University norms and the norms as laid down by the respective universities of various colleges. Besides qualification and experience, quality of service and discrete contribution are also given weight age.

Nonteaching (Including corporate office staff): Promotion to higher positions is considered based on the efficiency and quality of work as well as the total services rendered to the group.

The Self appraisal reports and personal files of staff and recommendations of the Principals are taken into consideration. For senior positions, each employee will be responsible for developing their respective work plan for the year. This plan will be reviewed by the management and amended as necessary. At the time of performance appraisal, the employer and employee will review the objectives and results achieved. Throughout the year the employee and employer may refer to this document to track progress made towards objectives, highlight areas of concern and indicate challenges identified along the way.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

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.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 0

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

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document

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

Response:

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. Fund is also generated in the form of fee collected from FDPs, workshops, trainings and management fests organized by the institution. 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.

The revenue generated by the above sources are allocated to the respective activities. A proper and transparent system is in place for allocating this fund. Approvals from the activity coordinator, head of the department, Principal, Finance manager and the Chairman is required for spending or allocating this fund. A clear and well defined system is also in place to monitor the effective and efficient usage of this fund. Fund is allocated to events only after scrutinizing the budget and program plan. Financial assistance is provided to students and faculty members to attend various faculty development programs and workshops.

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. The institutional strategy to generate funds is primarily based on Quality enhancement strategy. This strategy is essential in teaching learning and scientific-work environment. By quality enhancement, the scope for increasing consultancy widens which leads to generation of more funds. By providing quality enhancement, a better fee structure can be claimed by the college that can be sanctioned by the government. This also leads to improved funding. Hence, quality enhancement of the institution is nurtured to generate funds from different sources.

Optimal utilization of funds is ensured through the following:

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. Adequate remuneration based on the performance-quotient of the teaching professionals is provided.

3. The budget will be utilized to meet day-to-day operational and administrative expenses and maintenance of the fixed assets.
4. The grants received from the external funding agencies are effectively utilized in implementation of projects by procuring the suitable equipment. This equipment is further utilized in the established advanced laboratories of the institute. Availability of such equipment has further improved the research interest of the faculty and students.
5. Enhancement of library facilities leads to novel learning practices and accordingly requisite funds are utilized for this every year.
6. Adequate funds are utilized for development and maintenance of very good infrastructure for the institute.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response:

The IQAC of the college was established in June 2015 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.

The IQAC has consistently striven to institutionalize quality assurance strategies and processes at every level of the institution's functioning. From devising strategies to improve the teaching-learning process through increased use of ICT, expanding the scope 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.

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.

1. The practice of Outcome Based education has been introduced. As a part of it, question paper setting based on Blooms Taxonomy Level has been initiated. The course outcomes (CO) of a particular course defined by the subject expert, Programme Educational Objectives (PEO) and Program Outcomes (PO) are well communicated and disseminated to the stakeholders. The outcome is measured for each course and the attainment of Program Outcome is calculated by PO-CO matrix. Finally, Programme Educational Objectives and Program Outcomes performance is calculated using PO-PEO matrix.

2. Mentor – Mentee system has been followed for personal counseling and grievances Redressal of the students. Mentoring is a student monitoring process. All the personal, academic, co-curricular and Extra-curricular information about the student are recorded in the Student record maintained by the respective faculty mentor. Each student's academic and other activities are keenly monitored by the mentors. Mentors also give extra focus on the students having backlog arrears by conducting additional coaching classes for the slow learners to ensure improved performance. Ethical and moral values are imparted to the students regularly during the mentoring. Students participating in club and sports activities are encouraged to improve the leadership qualities. Parent meetings are conducted by inviting parents to discuss about their ward's performance.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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 (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Institution monitors its activities and programs with the help of its ERP package, Icampuz. Major contributions of IQAC are development of ICT Enabled smart Class rooms for each department, LAN and Wi-Fi connectivity encompassing the entire college with higher bandwidth, Enriching the Library through establishment of tie ups and subscription and Sensitizing quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders by teaching and non-teaching members, general

meetings, notices, college Website and through Alumni meet, parent teacher meeting etc.

This can be delineated with following two specific examples amongst others.

1. Regular implementation of Mega Tech fest 'NSITE' and Mega cultural event 'BLOOM'.

IQAC has emphasized on the importance of conducting technical and cultural events for the benefits of students at our Institution to showcase the innovative talents of the students and is aimed to promote the scientific temperament among the students. In accordance with the same, experts from various industries and institutions were invited to evaluate the various student's projects and technical events. Both NSITE and BLOOM comes with loads of ways to explore knowledge, together with fun and entertainment. Being named, Nehru Science Innovation & Technology Expo (NSITE), with a motto to fire up innovative ideas in the minds of engineering scholars and providing a good platform to expose and hence improve their skills. NSITE is one of the largest National Level Inter Collegiate Technical Fest, which is open to students from all over India to participate, exhibit and compete with their inventions & innovations in major streams of Aeronautical, Architecture, Automobile, Civil, Computer Science, Information Technology, Electrical and Electronics, Electronics and Communication, Mechanical, Mechatronics and Pharmacy. NSITE serves as a diving pool for the True Citizens of tomorrow with a diverse range of competitions and unparalleled technical extravaganza, designing, coding, paper/project presentation, gaming and brainstorming. These are the few nerve wrecking events that offer a challenge to the technical acumen of the participants.

South India's largest cultural extravaganza BLOOM celebrates creative, talented and fashionable outcomes of students with much pride. Every year Students are divided into teams and put in houses and the houses participate for the champion title. The two-day mega festival features numerous competitions, including dance, dramatics, film & photography, music, debating, creative writing and more. More than 4000 students from six campuses overseen by Nehru Group of Institutions will be participating. Sports day are also taken place. The IQAC has constantly monitoring the quality of each and every events schedules in accordance with technical and cultural events.

1. Evaluation in Bloom's Taxonomy level

As a part of outcome-based education, the question paper setting based on **Blooms Taxonomy** Level has been introduced. Under IQAC the internal exam committee will regularly monitor and evaluate each and every subject's internal exam question papers and confirmed its settings with the identified six levels within the cognitive domain. Bloom's taxonomy helps teachers and instructors create curricula, course, lesson plans, and learning activities, as well as formative and summative assessments. It helps ensure that the students have clear measurable goals and expectations. A question paper scrutiny committee has been formed every year under the supervision of head of the departments along with IQAC for monitoring and implementing all the exam related activities and for maintaining higher standard in question papers. The IQAC organizes regular academic audits to ensure effective implementation of teaching Learning process and maintenance of course files, verification of Internal test analysis and question papers.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

Response: B. 3 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document
Paste web link of Annual reports of Institution	View Document

Criterion 7 - 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 last five years.

Response:

Nehru Group of Institution is pledged to Mould true citizens, and all students of the campus are treated equally without gender barriers. This basic strategy of **equality**, in a cross-curricular way, from different domains and activities of the college, is our first step to combat inequality.

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

Safety and security

- We strictly follow the Safety norms and the campus is well organized with Security features.
- The officials from a leading security agency are given the charge of maintaining college security norms, so that the aspects are done in professional mode.
- Each building block including Canteens and Hostels are well lit, so that security officials are able to clearly watch the surroundings.
- The welfare officer engages himself in ensuring the security aspects of the campus.
- Faculty members during non-academic hours, take charge in monitoring the roads and the corridors
- Sick rooms are well organized to provide basic first aid. The Nehru group has a Medical College, which provides quick and responsible medical aid whenever necessary.
- Fire Safety Units bearing high standards are installed.
- Ambulance facilities are easily provided in case of emergency
- Woman Cell is pledged to execute The Gender Equality Plan which formally defines the activities for 2years
- The Students Grievance Cell and Student Welfare Committee are well responsible in executing all Safety and Security norms, as per the feedback from the students.

Counselling

- A strong mentoring system where each student gets a personal attention from a faculty member.
- Each department has enough number of Lady Members in faculty team, facilitating all-round support for girl students.
- The i-campus software is well equipped to provide updated attendance report to parent's mobile devices.

- The green-card system and Semester wise rejoining day are some perfect platforms for Student, Parent and faculty to sit together and discuss.
- Professionally trained counselors handle various sorts of training for the students, and organizes separate counseling sessions for Faculty, Students, Girl-students and staff, in various levels.

Common Rooms

- The canteen equips a two long common halls for the students and faculty members.
- A beautiful yoga hall is set in the Kapila block for the practice yoga sessions
- A common hall is provided in the Aryabhata block for the students

Day care center for young children

- College facilitates a Kids Centre, where small children of Staff members may be entertained during the working hours. Toys and play units are provided in the centre

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Link for annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
- 5.Use of LED bulbs/ power efficient equipment

Response: B. 3 of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- **Solid waste management**
- **Liquid waste management**

- **Biomedical waste management**
- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

Response:

Solid waste management

The college has a fully-purposeful Sewage Treatment Plant installed in the campus, which is used to suck the wastages from the hostel, to remove contaminants and produce treated wastewater (or treated effluent) that is safe enough for release into the environment. The semi-solid by-product is also well treated so as to be used as the manure for college plantation area.

Liquid waste management

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

E-waste management

Being an engineering college, we remain responsible about managing the damaged electronic-parts. Any sort of non-recyclable wastes are collected from the respective departments/lab/office and are stored in a safe place with proper concrete flooring. The e-waste is further collected by external agencies. The scrap agencies generally are called twice in a year, or in special cases they take the e-waste at the earliest.

Waste recycling system

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

Our college doesn't offer courses on Bio-Medical/Chemical Engineering, hence currently there's no scope for Hazardous chemicals waste management & Biomedical waste management, but would stay agile in implementing them when and where is required & necessary.

File Description	Document
Any other relevant information	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Link for Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: C. 2 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: C. 2 of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document

7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit

2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

Response: B. 3 of the above

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

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Disabled-friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. 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

Response: B. 3 of the above

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

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 500 words).

Response:

Our College remains 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.

We promote good relations with neighborhood community through extension activities and other programs for the betterment of society. To sensitize the students to social issues following activities were initiated by NCERC

Social Extension Activity: Our College organizes various extension activities well supported by management. The institution promotes the participation of student and faculty in all extension activities. Individuals/Groups that need support are identified and a solid plan is made to address their issue, and resolve it in various levels. With the strong support from Student association and Staff club, the project is executed. Some notable contributions are listed below

- Onam celebration for Thanal Balasramam
- Birthday lunch with Mothers of Pambady Mathrusadan
- NSS camps to address issues like health, cleanliness, safety etc.
- GramSwaraj Survey using ODK
- Bharathapuzha Cleaning

Charity Program

- Computer/Accessories for HelenKeller blind centre DTP unit
- Grocery Kit for Cleaning staff
- Library at Sabari ashramam
- Flood relief at Kuttandan areas

Health care activities: To promote the health and wellness of the neighborhood community, health care activities has been conducted in the college. Students extend their support by donating blood to needy people and promote voluntary blood donation camps. Yoga and meditation is practiced in the campus to create calmness and rejuvenation of the mind and body.

House for Poor: In the memory of our Founder, a project was initiated to construct house for some poor families and through this venture 'PKDas Memorial Homes' we could fulfill some most basic needs of some downtrodden families in our society.

SWAN's Study kit for poor school students: SWAN is the official Staff Club of the college, which initiates many charity programs. We

sponsoring 100 poor students as they began their academic year. Our Kits was duly received by the MalayalaManorama (leading News daily) and was supplied to the identified schools. Another notable venture was, during Floods, it initiated a bulk supply of Study materials to the Kuttanad area.

Malayala Bhasha Padhasala Programs: Our college staged some intellectually rated events, focusing the promotion of Malayalam Language, Regional Folklore and Indian Traditional Arts. In association with Kannur Malayala Bhasha Padhasala, our college organized Awards for Gurus in field of Literature Art and Cultural Domains.

Dr.Jayakumar IAS (Former Vice Chancellor Malayalam University), Adoor Gopalakrihnan (Internationally renowned Film Director), Padmabhushan Dhananjayan-Shantha Dhananjayan (World renowned ClassicalDancers), Padmasree Mattannur Sankarankutty Marar (Percussion Artist), T Padmanabhan (receipt of highest literary award of the Government of Kerala) etc delivered their presence and performances during these events. Students could witness the serious tracks of Indian Art and Literature, and we feel proud to have made a gratified contribution towards the Cultural and Linguistic diversities.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document
Link for any other relevant information	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

Our College 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: Organized every year for 7 days duration, with day-night boarding & lodging held in different parts of the locality. The social service activities such as Cleaning, Afforestation, Stage shows or a procession creating awareness of such issues as social problems, education and cleanliness, Awareness Rallies, Health check-up camp, tree plantation etc. according to requirement of work in the adopted area.

Donating TV sets and DishTV: Recently, during Covid lockdown, as the school learning got shifted to Television platforms, we donated Television and DishTV+SetTopBox units for underprivileged school students.

School Police Cadet support: The Student Police Cadet Project is a school-based youth development

initiative of Kerala government. The SPC project activities of the nearby school was supported by our NSS unit, and was well supported by Sri.Pradeep Hon.MLA, High Officials of Police Dept and Grama Panchayath.

Excise department programs: 'Vimukthi' was a socially relevant campaign initiated by NCERC along with Kerala Department, initiating a series of seminars handled by Kerala Excise Officials and our own Faculty members. The campaign covered around 34schools, engaging the students with interactive talk shows and games

Anti drug Campaign: We conducted various episodes like awareness programs inside & outside the college with the help of government authorized agencies/organizations. Educating the students about the ill-effects of drugs and alcohol, encouraging peer policing and reporting of any issues to the Student Welfare committee, are also part of the plan.

Legal Awareness Program: Seminars and Invited talks by Retd.Judges, Advocates and Law experts are organized in our campus, to address issues from various spheres including Civic needs, woman rights, legal responsibilities, traffic rules etc..

Career Guidance program for School students: School Students need to know the importance of career planning. 'Disha' is our initiative providing right guidance to choose an academic stream after taking their board exams. Every year, many Schools invite us to conduct 'Disha' in their campus. Our Enthusiastic Councilors and Trained Faculty members aids these Schools.

Samanwaya: During Covid19 pandemic, some novel devices like Sanitising tunnels & Dispensing units were designed by our college. The entire process was done by our Students and Staff with financial support from NGI Management. The products were then installed in various public places, including Govt Offices, Munsif Courts, schools, Panchayath etc.. for Free of cost. This project was named Samanwaya.

Flash Mob: Students of the NCERC performed various flash mobs to spread awareness on social issues, in various locations. Dance/Skit performance on drug abuse, violations of traffic rules and Green environment etc.. were organized by our student teams, strongly supported & guided by our young Faculty members.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document
Link for any other relevant information	View Document

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.

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators**

and other staff

4. Annual awareness programmes on Code of Conduct are organized

Response: C. 2 of the above

File Description	Document
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 Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

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. We recall the contributions of our leaders in building the nation. It would imbibe the moral and ethical behavior of students in their professional and personal lives.

Gandhi Jayanthi: *Remembering our Father of Nation*, various programs like Quiz, Essay Competition etc. during the first week of October.

Childrens Day: Nehruji is an all-time inspiration for our College, as it's named after him. We initiated a Seminar where PG students handled some informative talkshows.

International Yoga Day: Many Students/Staff take gather In our Yoga Hall and Auditorium, to be a part of the program and perform various asanas. This year, due to covid lockdown, the program was executed on virtual platform.

Republic Day: We take pride in glorifying and celebrating the spirit of unity. Principal/Acad.suprnd. presides over the flag hoisting ceremony. NCC wing brought the stage alive through their speeches and other events.

Independence Day: Our NCC cadets marched out in a procession through the College Road. Principal hoisted the national flag and the students and teachers saluted the flag and then sang the National Anthem with honor

Abdulkalam day: Our college celebrates World Students' Day every year on October 15 on former

president APJ Abdul Kalam's birthday. We conduct various Seminars or Talkshows on the day.

P N Panicker week (Kerala readers week): Honouring the father of the 'Library Movement in Kerala', late P.N. Panicker, our college celebrates the commemorative day with Spl.Lectures, Literary Reviews, Book sharing events etc.. Readers Club initiates these projects, and are led by PG students

Teachers day: In fond memory of Dr.Sarvapalli RadhaKrishnan, Students express their gratitude and appreciation for their teachers through spl.meetings. The respectful speeches, would make all our teaching staff shine with pride.

Internatinal Women's Day: On 8th March we organized group discussions, performances and skits in the classrooms to raise awareness on importance of gender equality and women empowerment.

Onam: Onam Festival falls during the Malayalam month of Chingam (August - September). It is the biggest festival celebrated with joy and enthusiasm by people of all communities in Kerala.We conduct Pookkalam competitions, Ghoshayatra, Thiruvathirakali, Games, and the delicious Onamsadya.

Christmas: The verandas and classes get decorated and students get dressed in red and white, drafting Cribs, singing Carols and danced beautifully to wish their teachers and classmates. The students & teachers distribute small Christmas gift to each other.

Eid-al-Fitr: We organize Iftaar, an evening gettogether with Prayers & Food. Staff Club SWAN distributes Sweet Boxes during this event.

File Description	Document
Link for Geotagged photographs of some of the events	View Document
Link for any other relevant information	View Document
Link for Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

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

Response:

BEST PRACTICE 1

Title of thePractice: *Playing the role of a Participating Institute for Unnat Bharat Abhiyan*

Objectives of the Practice

- To aid UBA project and offer our institutional capacity and support relevant to national needs, especially for Pambady-Thiruvilwamala region.
- To engage our Students through field work and design societal objectives so as elevate their talents for development of rural India.
- To utilize our academic excellence in the field of science, technology and management, for providing support for regional agencies .
- To propose new rural development outcomes as a value of research and to devise new processes to absorb its outcomes so as to develop a sense of dignity and collective destiny.

The Context

Presently, 70% of the population in India lives in rural areas. 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. Government of India has thus initiated Unnat Bharat Abhiyan (UBA), a much needed and highly challenging edge in this direction. NCERC is the Partnership Institute of UBA in our region for carrying out transformational change in rural development processes by influencing our knowledge to help build the architecture of an Inclusive India.

The Practice

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. We developed linkage with selective rural clusters, involving in their planning process. 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
- Executed our field studies, to learn the implementation of the Government schemes, and facilitate their better implementation.
- Engaged interested faculties, students, NSS and other bodies for these community development activities.
- Shared our findings along with our suggestions to support GramaPanchayath, Government and Non-Governmental bodies.
- Assisted these authorities, for improving the social and economic well-being of the Pambady-Thiruvilwamala rural communities.

Evidence of Success

The major activities of NCERC-UBA Cell are summarized below,

- **Completed Village survey:** As the first phase, Village surveys for the 5 adopted villages successfully with the help of village officers. The Students and Faculty members of our team did a upright job in identifying the villages and listing out the basic data in the UBA forms.
- **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. The detailed datasheets were then organized and uploaded in the UBA portal.
- **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:** The needs emerged from our surveys and analysis form basis for developing the GPDPs. Currently GPDP is going on in all the 5 adopted villages to connect the villages with the Rural area plans. Our coordinator & team is closely monitoring the updates with a great support from gramapanchayath.

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.

Resources Required

- The Participating Institute's (PIs) is allotted with Rs 50,000 only from UBA as recurring grant per annum and it is not well sufficient for the 5 adopted villages.
- We expect a minimum Rs 1.5 to 2.0 lakh for the smooth running of the project. 1.0-1.5 lakh for the project technology development and 0.5 lakh for customization of the technology.
- Only IIT- Delhi, IIT-Mumbai and IIT-Kharagpur have the full fledged set ups with regard to UBA projects. It would be desirable for PIs avail a chance to visit the institutions, so as to witness their facilities/progress of the projects

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 .

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.

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.

Evidence of Success

Following modules of the Workshops are executed creating successful outcomes

- **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.
- **Transportation facility for students & Guest speakers** should be further enhanced

File Description	Document
Link for Best practices in the Institutional web site	View Document
Link for any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

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. The following table provides an Activity Matrix view, for the summary of its key undertakings.

Pillar	Focus Area	Goals/Expectations	Events/Activities
Cognitive	Student must be able to learn how to solve complex tasks in their life – no matter if they are related to situations at college, work, or in our private life.	Concentration, problem solving, working memory and flexible thinking. Learning to tackle complex tasks and building effective strategies to identify solutions.	IIC IEDC Karma NAppIER
Creative	Student must come up with new solutions to problems that the world of tomorrow will face. Creative skills support their openness to new experiences and help to transform those ideas in meaningful ways.	Coming up with ideas, expressing them and transforming them into reality. Being ok with ambiguity, exploring possibilities, evaluating ideas, identifying the best solution.	NeCTAR StartUp TBI NSite
Physical	Student must have strong physical skills, exercise their minds and bodies to maintain wellbeing towards a successful life.	Being active, understanding movement and space through practicing sensory-motor skills. Developing spatial understanding and nurturing an active and healthy body.	NCC Bloom Samanwaya
Social	Students are to be empowered as strong collaborators and communicators, to have healthy relationships with family and	Collaboration, communication and perspective-taking. Sharing ideas, negotiating rules and	Thirike HeliFly

	friends.	building empathy.	NSS
Emotional	Student must process strong emotional balance, be able to tackle challenges in everyday life and relate in important ways to their family and friends.	Understand, manage and express emotions by building self-awareness and handling impulses. Staying motivated and confident in the face of difficulties	PadhamOnnu PKDas Home CSR Nehru Vigyan

- 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 Aerial view of Vilwadi 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	Document
Link for appropriate web in the Institutional website	View Document
Link for any other relevant information	View Document

5. CONCLUSION

Additional Information :

NCERC promotes cultural activities and has formed a committee for conducting cultural events. An annual cultural fest named 'BLOOM' is organized to provide a platform for students to showcase their talents and organizational skills. The college also conducts the Nehru Science Innovation and Technology Expo called NSITE every year to expose the innovative ideas of the young technocrats. Students arrange industrial visits and educational tours under the supervision of teachers. The college has an exclusive language laboratory attached with audio and video facilities for enhancing the language skills of the students. Our institution has seven computer laboratories with adequate number of computers connected through LAN or Wi-Fi connectivity with more than 64Mbps internet speed to share and access knowledge resources like NPTEL, MIT resources and YouTube. We have totally 740 computers with the configuration of Intel Core2Duo/2.40GHZ/1GB RAM/160 GB SATA HDD/ Intel Onboard E'Net. The college promotes research activities by hosting workshops, seminars, conferences and talks by eminent people. Faculty members are encouraged to publish papers in refereed national and international journals and present papers in national and international conferences. A series of workshops, seminars, conferences, soft skills training programs and guest lecture series are conducted to provide hand-on experience to the students. Students admitted in to the various programs comprise of diverse mix of ethnic, cultural, religious and linguistic backgrounds. Psycho-social support is provided through active individual and group mentoring with support from professional counselors. The college management has been recipients of various awards from Kerala Advertising Agencies, Indian Economic Development and Research Association, Mahatma Gandhi Peace Foundation by Kerala State Committee and the Bharat Jyothi Award. Ranks and gold medals have been bagged by the students in academics. Several students have excelled in sports and games, organized at the university level. The college ICT facility includes projectors, wireless microphones, sound systems, marker boards, public addressing system, desktop recorder and video recorder with internet facility to conduct lectures, seminars, webinars, conferences, guest lectures, and workshops. The NCC and NSS units of the college have done several social activities like undertaking rehabilitation works, conducting survey regarding flood, participating in world environment day 'Swachh Bharath' mission.

Concluding Remarks :

With a perfectly designed infrastructure with well-furnished spacious classrooms, playgrounds, airy auditoriums, hostels, canteens, Wi-Fi connectivity and efficient transportation facilities and a conducive environment for peaceful intellectual activity, NCERC stands high above the rest spreading the sparks of knowledge and rays of enlightenment serving the nation and the humanity. It is proud of a serene and verdant green campus that creates a stimulating learning environment and a vibrant culture of holistic development in academics, sports, music and art. It has got a highly decentralized administration, governed by a well-defined and transparent quality policy and managed by different committees formulated, satisfying the requirements of the statutory bodies with the General Body as the highest policy making body. The college runs a well-designed system to take feedback from the students and the faculty periodically and initiates necessary corrective measures for better functioning. Nehru Corporate Placements and Industry Relations (NCP&IR) impart training to the students to develop and perfect professional and technical skills. A Memorandum of Understanding (MOU) has been signed with ICT Academy and SAP (Student Academic Programme) for developing Industry Institution Interaction . With its state of art infrastructure and academic excellence the college has, indeed, emerged as a true center of excellence in learning and a research hub for the students and the faculty. It is indeed marching ahead fulfilling its objectives to promote high quality and excellence in the arena of technical

and professional education and to impart knowledge and training in a structured fashion to the student fraternity.

NAAC

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p>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 last five years</p> <ol style="list-style-type: none"> 1. Academic council/BoS of Affiliating university 2. Setting of question papers for UG/PG programs 3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses 4. Assessment /evaluation process of the affiliating University <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: C. Any 2 of the above</p>																				
1.2.2	<p>Number of Add on /Certificate programs offered during the last five years</p> <p>1.2.2.1. How many Add on /Certificate programs are offered within the last 5 years.</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>11</td> <td>17</td> <td>9</td> <td>13</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>9</td> <td>14</td> <td>07</td> <td>10</td> </tr> </tbody> </table> <p>Remark : As per the HEI statement in the response dialogue box and the data attached with the Metric during clarification. Strength of Materials, refrigeration & air conditioned, Heat & mass transfer, WSN, signals & systems and Digital communication are courses of regular curriculum and not considered.</p>	2019-20	2018-19	2017-18	2016-17	2015-16	16	11	17	9	13	2019-20	2018-19	2017-18	2016-17	2015-16	14	9	14	07	10
2019-20	2018-19	2017-18	2016-17	2015-16																	
16	11	17	9	13																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
14	9	14	07	10																	
1.2.3	<p>Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years</p> <p>1.2.3.1. Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>1013</td> <td>1122</td> <td>1502</td> <td>1777</td> <td>1863</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>727</td> <td>970</td> <td>1321</td> <td>1187</td> <td>1486</td> </tr> </tbody> </table>	2019-20	2018-19	2017-18	2016-17	2015-16	1013	1122	1502	1777	1863	2019-20	2018-19	2017-18	2016-17	2015-16	727	970	1321	1187	1486
2019-20	2018-19	2017-18	2016-17	2015-16																	
1013	1122	1502	1777	1863																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
727	970	1321	1187	1486																	

Remark : As per the HEI statement in the response dialogue box and the data attached with the Metric during clarification. Students completing Value Added Courses as recommended in 1.2.2 only are considered.

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

1.3.2.1. Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
188	180	207	195	247

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
14	15	15	16	15

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

1.3.3.1. Number of students undertaking project work/field work / internships

Answer before DVV Verification : 595

Answer after DVV Verification: 558

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders

1) Students

2) Teachers

3) Employers

4) Alumni

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

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

Options:

- 1. Feedback collected, analysed and action taken and feedback available on website**
- 2. Feedback collected, analysed and action has been taken**
- 3. Feedback collected and analysed**

4. Feedback collected**5. Feedback not collected**

Answer before DVV Verification : A. Feedback collected, analysed and action taken and feedback available on website

Answer After DVV Verification: C. Feedback collected and analysed

Remark : As per the HEI statement in the response dialogue box and the data provided with the Metric during clarification. The HEI was requested to HEI to also provide documents showing the communication with the affiliating University for the Feedback provided and the Action taken by the affiliating university on the feedback. The HEI has not communicated feedback to affiliating University. Hence option C-feedback collected and analyzed is recommended.

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

2.1.2.1. Number of actual students admitted from the reserved categories year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
24	12	39	90	121

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
138	177	90	295	287

Remark : As per the HEI statement in the response dialogue box and the data attached with the Metric during clarification.

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

2.4.2.1. Number of full time teachers with *Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt.* year wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
15	14	15	18	16

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
10	11	12	15	11

Remark : As per the HEI statement in the response dialogue box and the data attached with the

Metric during clarification. The HEI has considered Student counselor Physical education teacher, and CONSULTANT PSYCHIATRIST as Full time teachers.

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

2.4.3.1. Total experience of full-time teachers

Answer before DVV Verification : 785

Answer after DVV Verification: 746

Remark : As per the HEI statement in the response dialogue box and the data attached with the Metric during clarification. Physical education teacher, Physical education teacher, placement officer, student counselor and CONSULTANT PSYCHIATRIST are not considered as teachers and their experience is not counted. The HEI has included teachers with less than 01 years of experience such experience is not considered.

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

3.1.1.1. Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
14.8	2.0	2.0	0.3375	0.2375

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	00	00	00

Remark : As per the HEI data attached with the Metric in response. None of the listed grants are for research projects , endowments, Chairs in the institution during the last five years. The quoted grants are not eligible under this Metric.

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

3.1.2.1. Number of teachers recognized as research guides

Answer before DVV Verification : 3

Answer after DVV Verification: 0

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

3.1.3.1. Number of departments having Research projects funded by government and non-

government agencies during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
5	5	5	5	5

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

3.1.3.2. Number of departments offering academic programmes

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
8	8	8	8	8

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
08	08	8	8	8

Remark : As per the HEI data attached with the Metric in response. None of the listed grants are for research projects , endowments, Chairs in the institution during the last five years. The quoted grants are not eligible under this Metric.

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years**3.2.2.1. Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
9	16	2	2	12

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
07	10	2	2	10

Remark : As per the HEI data attached with the Metric in response.

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years**3.3.1.1. How many Ph.Ds registered per eligible teacher within last five years**

Answer before DVV Verification : 0

3.3.1.2. Number of teachers recognized as guides

during the last five years

Answer before DVV Verification : 4

Answer after DVV Verification: 0

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years**3.3.2.1. Number of research papers in the Journals notified on UGC website during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
19	64	11	42	57

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	00	0	00	00

Remark : The HEI was requested to provide Web-link in the template which redirects to the journal webpage published in the Actual link of UGC for specified journal(s). The details provided by the HEI are not complete with UGC list /the UGC link. The respective publication can neither be verified nor considered. The HEI has not provided ugc-care website link. Only local journals have been quoted which do not fall under Journals notified on UGC website. As per the HEI data.

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**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 last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
5	10	14	23	12

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
05	09	06	09	04

Remark : The HEI was requested to provide Books/ conference proceedings with ISBN number only. As per the data provided. HEI Claims with clear ISBN/ISSN details, Date and the conferences have been considered.

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

3.4.2.1. Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1	1	2	1	4

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

3.4.3.1. Number of extension and outreached Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
24	32	3	18	19

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
12	14	1	8	8

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

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 last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
987	1168	1346	1988	2189

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16

274	258	198	187	212
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3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1	7	7	0	2

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
1	7	7	1	1

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

4.1.3.1. Number of classrooms and seminar halls with ICT facilities

Answer before DVV Verification : 54

Answer after DVV Verification: 50

Remark : As per the HEI statement in the response dialogue box and the data in the balance sheets attached with the response. The HEI has provided attested copies of the stock register and supporting invoice copies.

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

4.1.4.1. Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
25.36	27.72	14.80	67.98	1205.39

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
25.37	27.7	14.8	67.98	1205.4

Remark : As per the HEI statement in the response dialogue box and the data in the balance sheets attached with the response. Consolidated expenditure for infrastructure augmentation, excluding salary component has been provided by the HEI in the schedules with the audited balance sheets of

the respective FY.

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

4.2.3.1. Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
9.88	11.36	13.37	22.15	15.11

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
9.88	11.36	13.37	22.15	15.11

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the last completed academic year

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

Answer before DVV Verification : 388

Answer after DVV Verification: 388

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

4.4.1.1. Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
494.64	505.25	606.33	724.25	822.63

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
78.81	73.45	77.69	64.27	83.31

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

5.1.1.1. Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
140	235	323	459	613

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
140	252	323	459	613

5.1.2 **Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years**

5.1.2.1. **Total number of students benefitted by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
245	337	413	453	347

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

Remark : As per the HEI statement in the response dialogue box and the data attached with the Metric during clarification. The HEI has opted out this Metric

5.1.3 **Capacity building and skills enhancement initiatives taken by the institution include the following**

1. **Soft skills**
2. **Language and communication skills**
3. **Life skills (Yoga, physical fitness, health and hygiene)**
4. **ICT/computing skills**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : As per the HEI statement in the response dialogue box and the data attached with the Metric during clarification.

5.1.4 **Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years**

5.1.4.1. **Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

Answer before DVV Verification:

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2019-20	2018-19	2017-18	2016-17	2015-16
886	1123	1454	1895	2099

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
472	523	497	513	549

Remark : As per the HEI data attached with the Metric. The HEI has claimed on the basis of 01 day activities. There have been only career counselling offered by the institution and HEI has not offered guidance for competitive examinations. Aptitude Training cannot be considered in this metric.

5.2.1 Average percentage of placement of outgoing students during the last five years

5.2.1.1. Number of outgoing students placed year - wise during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
87	353	168	56	164

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
63	277	168	53	143

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

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) year-wise during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
3	3	10	4	10

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
00	00	00	00	00

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

5.3.3.1. Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
79	40	56	24	62

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
15	15	13	11	5

Remark : As per the HEI statement in the response dialogue box and the HEI data provided with the Metric during clarification. The HEI was requested to reconcile and provide only the sports and cultural activities / competitions organized at the institution level. Reports indicating the kind of events with supporting photographs were requested to be attached. HEI has claimed multiple entries for participation in the activities on the same day. All activities on a particular day are counted 01 per group of activities.

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Answer before DVV Verification : A. ? 5 Lakhs

Answer After DVV Verification: E. <1 Lakhs

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

6.3.4.1. Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
129	123	132	140	148

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
28	35	42	81	02

6.5.3 Quality assurance initiatives of the institution include:

- 1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2. Collaborative quality initiatives with other institution(s)**
- 3. Participation in NIRF**
- 4. any other quality audit recognized by state, national or international agencies (ISO**

Certification, NBA)

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : As per the HEI statement in the response dialogue box and the data attached with the Metric during clarification. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements, Participation in NIRF and ISO Certification considered

7.1.2 **The Institution has facilities for alternate sources of energy and energy conservation measures**

1. **Solar energy**
2. **Biogas plant**
3. **Wheeling to the Grid**
4. **Sensor-based energy conservation**
5. **Use of LED bulbs/ power efficient equipment**

Answer before DVV Verification : A. 4 or All of the above

Answer After DVV Verification: B. 3 of the above

Remark : As per the HEI statement in the response dialogue box and the data attached with the Metric during clarification. The documents do not support Biogas plant and Wheeling to the Grid. The HEI did not provide invoice of solar power generation and Biogas plant. As per the HEI data Solar power, Solar geyser, sensor based energy conservation considered.

7.1.4 **Water conservation facilities available in the Institution:**

1. **Rain water harvesting**
2. **Borewell /Open well recharge**
3. **Construction of tanks and bunds**
4. **Waste water recycling**
5. **Maintenance of water bodies and distribution system in the campus**

Answer before DVV Verification : A. Any 4 or all of the above

Answer After DVV Verification: C. 2 of the above

7.1.5 **Green campus initiatives include:**

1. **Restricted entry of automobiles**
2. **Use of Bicycles/ Battery powered vehicles**
3. **Pedestrian Friendly pathways**
4. **Ban on use of Plastic**
5. **landscaping with trees and plants**

Answer before DVV Verification : Any 4 or All of the above

Answer After DVV Verification: C. 2 of the above

Remark : The HEI was requested to provide its green campus policy document, numbered, dated and signed by the head of the institute. The HEI was requested to provide Geo tagged photographs/videos of the facilities such as Battery-powered vehicles, use of bicycles etc, captioned

	and signed by the principal. HEI to attach circulars, with ref and date for the Pedestrian-friendly pathways, Ban on the use of Plastics, vehicular traffic and Restricted entry of automobiles. As per the HEI data provided during clarification.
7.1.6	<p>Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions / awards 5. Beyond the campus environmental promotion activities <p>Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: B. 3 of the above</p>
7.1.7	<p>The Institution has disabled-friendly, barrier free environment</p> <ol style="list-style-type: none"> 1. Built environment with ramps/lifts for easy access to classrooms. 2. Disabled-friendly washrooms 3. Signage including tactile path, lights, display boards and signposts 4. 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 <p>Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: B. 3 of the above</p>
7.1.10	<p>The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.</p> <ol style="list-style-type: none"> 1. The Code of Conduct is displayed on the website 2. There is a committee to monitor adherence to the Code of Conduct 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: C. 2 of the above</p>

2.Extended Profile Deviations

ID	Extended Questions										
1.1	<p>Number of courses offered by the Institution across all programs during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>490</td> <td>520</td> <td>567</td> <td>568</td> <td>575</td> </tr> </tbody> </table>	2019-20	2018-19	2017-18	2016-17	2015-16	490	520	567	568	575
2019-20	2018-19	2017-18	2016-17	2015-16							
490	520	567	568	575							

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
478	507	558	558	555

2.2 **Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
131	152	182	188	188

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
264	308	368	380	380

3.1 **Number of full time teachers year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
137	160	190	219	208

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
125	155	185	213	204

4.1 **Total number of classrooms and seminar halls**

Answer before DVV Verification : 61

Answer after DVV Verification : 54

4.2 **Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
520.00	532.98	621.13	792.23	2028.02

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
399.42	406.03	484.27	635.33	1841.74

4.3 **Number of Computers**

Answer before DVV Verification : 541

Answer after DVV Verification : 523

NAAC