



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		N.B.K.R. INSTITUTE OF SCIENCE AND TECHNOLOGY
Name of the head of the Institution		VIJAYA KUMAR REDDY V
Designation		Director
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		+918985382247
Mobile no.		7382297655
Registered Email		ist@nbkrist.org
Alternate Email		iqac@nbkrist.org
Address		Vidyanagar
City/Town		Kota - Mandal
State/UT		Andhra Pradesh
Pincode		524413

<b>2. Institutional Status</b>																															
Autonomous Status (Provide date of Conformant of Autonomous Status)	28-Jun-2019																														
Type of Institution	Co-education																														
Location	Rural																														
Financial Status	Self financed																														
Name of the IQAC co-ordinator/Director	Dr. I. Prabhakar Reddy																														
Phone no/Alternate Phone no.	07382297655																														
Mobile no.	9440366871																														
Registered Email	ist@nbkrist.org																														
Alternate Email	iqac@nbkrist.org																														
<b>3. Website Address</b>																															
Web-link of the AQAR: (Previous Academic Year)	<a href="https://www.nbkrist.co.in/Iqac/AQAR_2018-2019(1).pdf">https://www.nbkrist.co.in/Iqac/AQAR_2018-2019(1).pdf</a>																														
<b>4. Whether Academic Calendar prepared during the year</b>	Yes																														
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://www.nbkrist.co.in">https://www.nbkrist.co.in</a>																														
<b>5. Accrediation Details</b>																															
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.02</td> <td>2008</td> <td>16-Nov-2008</td> <td>15-Nov-2013</td> </tr> <tr> <td>2</td> <td>A</td> <td>3.08</td> <td>2014</td> <td>10-Dec-2014</td> <td>09-Feb-2019</td> </tr> <tr> <td>3</td> <td>A</td> <td>3.15</td> <td>2021</td> <td>15-Feb-2021</td> <td>14-Feb-2026</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.02	2008	16-Nov-2008	15-Nov-2013	2	A	3.08	2014	10-Dec-2014	09-Feb-2019	3	A	3.15	2021	15-Feb-2021	14-Feb-2026
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<b>6. Date of Establishment of IQAC</b>	20-Mar-2009																														
<b>7. Internal Quality Assurance System</b>																															
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Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Academic Council Meeting	13-Jul-2019 1	20
IQAC meeting	15-Jul-2019 1	21
Department of CSE & IT organized two day FDP on Programming for Problem Solving using Python	09-Jul-2019 2	40
Department of EEE organized AICTE sponsored one week short term training programme (STTP) on	26-Aug-2019 6	75
Organized Two week AICTE sponsored FDP programme on	11-Sep-2019 10	65
IQAC meeting	23-Nov-2019 1	21
Mechanical Engineering Department Organized One week FDP programme on	11-Nov-2019 6	55

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr.M.Praveen Kumar	TARE	DST SERB	2019 1095	1830000
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View Link</a>
<b>10. Number of IQAC meetings held during the year :</b>	2
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes

Upload the minutes of meeting and action taken report	<a href="#">View Uploaded File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>	
<ul style="list-style-type: none"> <li>• Academic audit system strengthened.</li> <li>• Campus placements were improved.</li> <li>• Arranged elearning classes by all faculties.</li> <li>• Laboratories are upgraded by procuring new equipment in all departments.</li> <li>• Faculty qualifications are improved. Some were awarded Ph D. Some have registered for Ph D.</li> <li>• Department wise more student association activities like technical quiz's, seminars, group discussions etc., were conducted.</li> <li>• Equal importance is given cultural festivals, sports.</li> <li>• Extension of Autonomous Status is conferred to our Institute for a period of five years i.e. from 20192020 to 2023 2024.</li> <li>• The Institute received considerable amount of grants under MODROBS, FDP and RPS from AICTE and DST.</li> <li>• NAAC 3rd cycle applied, IIQA submitted on 23.09.2019, SSR submitted on 06.11.2019</li> </ul>	

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<b>13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year</b>
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Plan of Action	Achievements/Outcomes
Improvement in Journal Publications	Publication count increased in SCOPUS indexed and WSI journals. Also institute announced incentive for reputed journal publications
Sensitizing faculty to Research	The number of Research Proposals/ Projects and Consultancies has been remarkably increased
Introduction of New course Artificial Intelligence and Data Science	New course Artificial Intelligence and Data Science with an intake of 60 seats was approved by AICTE
Conduct of Solar Energy Audit	One committee was deputed on 24-07-2020 to verify solar power generation & power consumption of institute. Committee submitted the report on 31-07-2019
NCC & NSS activities	NCC & NSS activities were strengthened
Sensitizing faculty to Industry Technologies	Conducted various guest lectures on latest technologies
Curriculum review for AY 2019-20	As per guidelines of AICTE and JNTUA new scheme of 160 credits for UG has been implemented.
Improvement of Laboratories	New labs established and new technical software procured. More no. of computes with high configuration are procured.

Remedial classes	Students who are under performance were give special attention by way of remedial classes in a few subjects outside the regular class hours.				
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<b>14. Whether AQAR was placed before statutory body ?</b>	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="118 459 794 510" style="text-align: center;">Name of Statutory Body</th> <th data-bbox="801 459 1477 510" style="text-align: center;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td data-bbox="118 510 794 560" style="text-align: center;">The Governing Body</td> <td data-bbox="801 510 1477 560" style="text-align: center;">19-Nov-2019</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	The Governing Body	19-Nov-2019
Name of Statutory Body	Meeting Date				
The Governing Body	19-Nov-2019				
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes				
Date of Visit	12-Feb-2021				
<b>16. Whether institutional data submitted to AISHE:</b>	Yes				
Year of Submission	2020				
Date of Submission	05-Feb-2020				
<b>17. Does the Institution have Management Information System ?</b>	Yes				
If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)	<p>Yes. The college developed own knowledge management system. ? The college design and maintain college website <a href="http://www.nbkrist.org">www.nbkrist.org</a>. The website provides the information regarding the courses offered details of the faculty and staff, infrastructure and other facilities, examination details, library details, placement information, training programmes and workshops, hostel information, amenities, professional body activities, seminar/paper competition details and extracurricular activities. ? The college maintains online attendance management system to provide the details of day to day attendance of all the students. It also provides the necessary information pertaining to academics like class work schedules, details of all the students etc., ? The library continuously updates the information about the availability of books, journals and magazines through</p>				

library management system. The faculty and student can access NPTEL, DELNET and other ebooks from Institute library through intranet

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Design and Development

##### 1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	1	Civil Engineering	19/07/2019
BTech	2	Electrical and Electronics Engineering	13/07/2019
BTech	2	Electrical and Electronics Engineering	14/03/2020
BTech	3	Mechanical Engineering	13/07/2019
BTech	4	Electronics and Communication Engineering	19/07/2019
BTech	5	Computer Science and Engineering	19/07/2019
BTech	5	Computer Science and Engineering	14/03/2020
BTech	12	Information Technology	14/03/2020

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##### 1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Civil Engineering	01/03/1979	13CE4101	24/11/2018
BTech	Civil Engineering	01/03/1979	13CE4102	24/11/2018
BTech	Civil Engineering	03/03/1979	13CE4103	24/11/2018
BTech	Civil Engineering	01/03/1979	13CE4104	24/11/2018
BTech	Civil Engineering	01/03/1979	13CE41P1	24/11/2018
BTech	Civil Engineering	01/03/1979	13CE41P2	24/11/2018
BTech	Civil Engineering	01/03/1979	13CE4201	24/11/2018

BTech	Civil Engineering	01/03/1979	13CE42P1	24/11/2018
BTech	Civil Engineering	01/03/1979	13CE42PR	24/11/2018
BTech	Civil Engineering	01/03/1979	17CE31P2	19/07/2019
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## 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
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### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Civil Engineering	19/07/2019
BTech	Electrical and Electronics Engineering	13/07/2019
BTech	Mechanical Engineering	13/07/2019
BTech	Electronics and Communication Engineering	13/07/2019
BTech	Computer Science and Engineering	13/07/2019
BTech	Computer Science and Engineering	14/03/2020

## 1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
<b>No Data Entered/Not Applicable !!!</b>		
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### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Civil Engineering	135
BTech	Electrical and Electronics Engineering	103
BTech	Mechanical Engineering	124
BTech	Electronics and Communication Engineering	210
BTech	Computer Science and Engineering	156
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## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

### Feedback Obtained

Feedback obtained periodically from various stakeholders helps alleviate the academic concerns, motivates the students and faculty to improve their performance. Feedback is taken into consideration and corrective measures/improvements are made by the head of the departments and Director. Feedback on course content delivery and outcome-based education: The following table provides an overview of two different approaches to gathering student feedback:

- Feedback Type Meetings/survey forms
- Collective / Immediate meetings ? Mentor-Mentee Meeting ? Class In charge Meeting ? Class representative Meeting ? Course content coverage Monitoring ? Course end semester Meeting
- Survey and Questionnaire ? Feedback on Faculty ? Course end Survey

Based on the feedback collected from the students, the feedback is analysed and corrective measures are taken by the head of the department / Director. Corrective Measures:

- Modern pedagogical tools
- Flipped classrooms
- Experiential learning
- Self-learning
- Project-based learning
- Research-based learning
- Effective schedule of instruction
- Better usage ICT tools (videos and animations etc.)
- Faculty training on instructional design and delivery

Feedback on course curriculum: The course curriculum is one of the crucial aspects of the teaching-learning process, so it requires regular and continuous assessment. Stakeholder feedback plays a remarkable role in course curriculum design and development by providing useful insights for upgrading various aspects of teaching, learning, assessment, and capacity. Designing and developing a curriculum demands proper need-based inputs in proper consultation with experts. Institute has made all the required arrangements for getting proper feedback from students, faculty, alumni, parents, and employers on various curriculum-related activities. Curriculum development comprises of following phases: Phase 1: Stakeholder feedback Phase 2: Feedback analysis Phase 3: Requirement analysis Phase 4: Benchmark and academic policies Phase 5: Board of studies Phase 6: Implementation of curriculum

Feedback on Teaching, Learning and Evaluation: Teaching learning is highly encouraged through ICT enabled infrastructure. Common feedback forms are designed at the institutional level for all the programs by considering all the dimensions of the teaching-learning process such as quality of teaching, course material, question banks, e-learning content videos, student interactions, clearance of doubts, communication, evaluation, subject knowledge, punctuality, etc. Feedback is taken through an online questionnaire format once in even / odd semester. In general, efforts to collect information for improvement can be informal and focus on specific areas as an individual faculty wishes to develop. As there are many dimensions to pedagogical work, it is best to use multiple measures involving multiple sources of data to evaluate the range of instructional activities, which can include the following:

- Instructional Delivery (including quality, amount, and level of classroom teaching)
- Course Planning (including the development of course materials, curriculum improvement, development of new courses)
- Grading and Assessing Student Learning (including appropriate level of assignments, exams, grading standards)
- Oversight of minor, honours, and



project work • Support for Student Internships, Experiential Learning, Self-Learning • Mentoring • Professional Development and Innovation around Teaching

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Civil Engineering	120	193	68
BTech	Electrical and Electronics Engineering	120	188	76
BTech	Mechanical Engineering	180	226	102
BTech	Electronics and Communication Engineering	180	350	193
BTech	Computer Science and Engineering	180	436	193
BTech	Information Technology	60	90	55
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### 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	2939	32	145	9	154

### 2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
154	147	12	4	4	15
<a href="#">View File of ICT Tools and resources</a>					
<a href="#">View File of E-resources and techniques used</a>					

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

Yes, Mentoring practice followed by our Institution : 1. HODs of all department will allot group of students to each staff (Counsellor/Mentor) right from the first year of their course. 2. There should be maximum 20 mentee per mentor. 3. Groups should be made from same department 4. Groups should remain for entire course duration. 5.

The mentor should conduct regular meetings and discussions on any problem such as academic, financial, psychological, etc. 6. There should be a continuous review of students' progress. 7. The mentor should keep the record of all details in the mentoring session. 8. The mentor should identify the poor learners and interact with them to resolve the cause. 9. Inculcating discipline, punctuality and motivation among the students is the main objective in career building of a student. 10. This is a continuous process till the end of academic career of the student. During the last semester of study, students are advised for higher studies along with proper career guidance. Reasonable numbers of students have secured admissions for their higher studies and they in turn guide their juniors for their prospective admissions. 11. The mentor can involve the Parents, Head and Principal for reforming of the student with poor performance and indifferent behaviour. Areas of Review • Attendance: Mentor shall observe the attendance of the mentee. Mentor shall advise and take necessary actions about the attendance of mentee with regards to university rules. • Academic matters: During the continuous assessment of the mentee, mentor shall keep the track of the overall academic performance of the mentee though counselling, by arranging remedial teaching, if necessary. • Behavioural and discipline Matters • Health and Physical Well being • Achievements, Talent and Co-curricular activities Duties/ Responsibilities of Mentor • Introduction of group and discussion of the mentor – mentee system. • Call of meeting and record of details in the form about goal setting action planning and mentoring session. • Keep a track record of attendance and academic performance and behavioural aspect. • Support to the student academically and emotionally. • Contact to parents and to inform them about the progress of their ward. • Arrange remedial teaching, if necessary. Duties/ Responsibilities of Mentee • Attend meeting regularly. • Fill the personal information in the form. • Provide details of attendance, continuous assessment, term end examination, cocurricular, extra-curricular activities to mentor. • Seek advice from mentor whenever required. Mentoring Book • Mentoring book includes ? Mentees personal details ? Personal interaction details ? Attendance ? Series performance ? Internal marks ? University results Advantages of Mentoring 1. Identifying weak students • Mentors can identify weak students and can take the remedial measures • Mentors will play the major role in pointing out the slow learners. • Mentors will pay special attention for them. • This may help the institution reduce the rate of dropout at very initial level. • The major criteria for identifying slow learners are their performance in series test, university results and personal interaction with

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2939	145	1 : 20

## 2.4 – Teacher Profile and Quality

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

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
186	182	17	13	2

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
<b>No Data Entered/Not Applicable !!!</b>			
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## 2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	1	I	13/12/2019	19/02/2020

BTech	1	II	08/01/2021	23/02/2021
BTech	2	I	13/12/2019	19/02/2020
BTech	2	II	08/01/2021	23/02/2021
BTech	3	I	13/12/2019	19/02/2020
BTech	3	II	08/01/2021	23/02/2021
BTech	4	I	13/12/2019	19/02/2020
BTech	4	II	08/01/2021	23/02/2021
BTech	5	I	13/12/2019	19/02/2020
BTech	5	II	08/01/2021	23/02/2021
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
17	5753	0.2

## 2.6 – Student Performance and Learning Outcomes

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

<https://www.nbkrist.co.in>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
1	BTech	Civil Engineering	127	119	93.70
2	BTech	Electrical and Electronics Engineering	72	60	83.33
3	BTech	Mechanical Engineering	127	119	93.70
4	BTech	Electronics and Communication Engineering	120	110	91.66
5	BTech	Computer Science and Engineering	157	134	85.35

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## 2.7 – Student Satisfaction Survey

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

### CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

#### 3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

<b>Yes</b>
Name of the teacher getting seed money
<b>Nil</b>
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
<b>No Data Entered/Not Applicable !!!</b>				
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#### 3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
<b>Any Other (Specify)</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>
<a href="#">View Uploaded File</a>				

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

2
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#### 3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
<b>No Data Entered/Not Applicable !!!</b>		
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
<b>No Data Entered/Not Applicable !!!</b>				
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation	Name	Sponsored By	Name of the	Nature of Start-	Date of
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Center			Start-up	up	Commencement
<b>No Data Entered/Not Applicable !!!</b>					
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### 3.4 – Research Publications and Awards

#### 3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Science and Engineering	2
Electrical and Electronics Engineering	2
Mechanical Engineering	1
Science Humanities	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Civil Engineering	4	Nil
International	Computer Science Engineering	6	Nil
International	Electrical Electronics Engineering	8	Nil
International	Electronics and Communication Engineering	20	1.87
International	Mechanical Engineering	14	Nil
International	Science and Humanities	6	Nil
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#### 3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Electronics and Communication Engineering	9
Mechanical Engineering	15
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#### 3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Internet of Things (IoT) enabled Dustbin Management System	Published	201941038177	27/09/2019
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#### 3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View Uploaded File</a>						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
PSO based reactive power coordination of dispatchable power generation voltage controlled devices	M Sankaraiah	IJITEE	2019	1	1	Yes
DFIG and voltage controlled devices optimal reactive power coordination using PSO algorithm	M Sankaraiah	IEEE	2019	1	1	Yes
GWO based reactive power coordination of DFIG, ULTC shunt capacitors	M Sankaraiah	IJEECS	2019	1	7	Yes
Improvement of power quality by using solar distribution generation based anfis upqc	S Suresh Reddy	JARDCS	2020	0	0	Yes
Transient stability	S Suresh Reddy	AMSJ	2020	0	0	Yes

performanc e comparis ion of fuzzy logic based pss and gwo based pss						
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### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Semi nars/Workshops	1	51	7	1
Presented papers	1	0	0	0
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### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
No Data Entered/Not Applicable !!!			
<a href="#">View File</a>			

#### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				
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### 3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
No Data Entered/Not Applicable !!!			
<a href="#">View File</a>			

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!			
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#### 3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agen	Name of the activity	Number of teachers	Number of students
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	cy/collaborating agency		participated in such activities	participated in such activities
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

### 3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
<b>No Data Entered/Not Applicable !!!</b>			
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
<b>No Data Entered/Not Applicable !!!</b>					
<a href="#">View File</a>					

3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
415	248.21

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Others	Existing
<a href="#">View File</a>	

### 4.2 – Library as a Learning Resource

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



Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Autolib	Fully	-	2010

#### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	12378	43075	172	772	12550	43847
Reference Books	120	120	32	32	152	152
e-Books	132	12292	82	13792	214	26084
Journals	253	0	20	0	273	0
e-Journals	7103	0	5	0	7108	0
Digital Database	7	0	0	0	7	0
CD & Video	1560	0	0	0	1560	0
No file uploaded.						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
<a href="#">View File</a>			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1105	5	355	355	1	15	340	10	45
Added	125	1	30	30	0	3	62	0	0
Total	1230	6	385	385	1	18	402	10	45

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

110 MBPS/ GBPS
----------------

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NPTEL Videos	<a href="http://lib.nbkrist.org/">http://lib.nbkrist.org/</a>
Video Lectures	

	<a href="https://nbkrist.co.in/LCS/OnlineClasses.pdf">https://nbkrist.co.in/LCS/OnlineClasses.pdf</a>
Lecture notes	<a href="http://103.159.250.194:94/Lecture%20Notes/showLectureNotes.php?dept=EEE">http://103.159.250.194:94/Lecture%20Notes/showLectureNotes.php?dept=EEE</a>
Video Lectures	<a href="http://103.159.250.194:93/">http://103.159.250.194:93/</a>
NPTEL Videos	<a href="http://103.159.250.194:81/electrical.html">http://103.159.250.194:81/electrical.html</a>
Downloadable resources/textbooks/magazines	<a href="http://103.159.250.194:81/fdScript/index.php?dirpath=./RootOfEBooks/EEE/&amp;order=3">http://103.159.250.194:81/fdScript/index.php?dirpath=./RootOfEBooks/EEE/&amp;order=3</a>
Video Lectures	<a href="http://lib.nbkrist.org(http://103.159.250.194:93/)">http://lib.nbkrist.org(http://103.159.250.194:93/)</a>

#### 4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
640	780.62	565	234.05

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

The physical facilities including Laboratories, Library, Sports, Computers and Classrooms are made available for the students those who are admitted in the college. All the stakeholders have equal opportunity to use those facilities as per the rules and the policies of the institution. Computers and Laboratories -

- All students must wear appropriate safety equipment and furnish information in log book.
- Removal of documentation, software, or equipment from the labs is prohibited.
- Respecting the privacy of other users do not try to access any files that belong to another user and Backing up your own data and protecting your own information.
- Power must be switched off in an experimental circuit whenever the circuit is left unattended.
- Do not make circuit connections by hand while circuits are energized. This is especially dangerous with high voltage and current circuits.
- Soldering irons are essential in the development of circuits however, users should handle these tools with great care.

Library -

- Admission to Library: Students are allowed to library only on production of their authorized/valid Identity Cards.
- Circulation Issue System: Books will be issued on presentation of the library card along with the ID card.
- Overdue Charges: Books should be returned on or before the due date stamped, if returned late overdue fine will be charged for the delayed period.
- Book Lost: If the books are lost, then the borrower shall replace the books of the same edition or latest edition or pay double cost of the book after getting permission from the librarian.
- Care of library borrower cards: Take special care to maintain the library borrower cards. Do not fold, alter entries made on the cards, Members are responsible for the entire set of library borrower card issued to them. Loss of borrower card should be reported for duplicate card may be issued against formal application and fine
- Validity of cards: Library borrower cards are valid for the entire duration of the course to access library facilities.
- Sports - The Institute

has sports facilities for indoor and outdoor games, since 1979, spread the area of 14 acres and utilized by the average of 200 students per day. Separate rooms are available for department, Table Tennis (men and women), Chess, Caroms, and Stores. In addition, Yoga and Gymnasium halls are also available. Classrooms -

- Do not have private discussions to avoid noise distraction to other students.
- State-of-the-art smart classroom is available with internet access through fiber-optic connections or Wi-Fi access with smart board.
- Special sessions and classes are also held on negotiation skills, effective communication, leadership, teamwork and analytical skills.

<https://www.nbkrist.co.in/>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit Scholarship	150	1500000
Financial Support from Other Sources			
a) National	Scholarship from AICTE for PG student qualified in GATE	1	160000
b) International	Nil	Nil	Nil
No file uploaded.			

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
No Data Entered/Not Applicable !!!			
<a href="#">View File</a>			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
No Data Entered/Not Applicable !!!					
<a href="#">View File</a>					

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
6	6	5

### 5.2 – Student Progression

### 5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
<b>No Data Entered/Not Applicable !!!</b>					
<a href="#">View File</a>					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	B.TECH	CE	JNTUH	M.TECH
2020	3	B.TECH	CE	JNTUA	M.TECH
2020	1	B.TECH	CE	SVU	M.TECH.
2020	1	B.TECH.	CE	SRMIST	M.TECH.
2020	1	B.TECH.	EEE	SVU	M.TECH,
2020	1	B.TECH.	ECE	JNTUCEA	M.TECH.
<a href="#">View File</a>					

### 5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	3
Any Other	12
<a href="#">View File</a>	

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

Activity	Level	Number of Participants
<b>No Data Entered/Not Applicable !!!</b>		
<a href="#">View File</a>		

## 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
<b>No Data Entered/Not Applicable !!!</b>						
No file uploaded.						

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

Students Association : • In each department students formed a separate student associations and one faculty is assigned as in -charge for the association • Students in each department forms departmental student association in every year. The students elect secretary, joint secretaries and executive body for

association in every year to organize various curricular and co-curricular activities for the students. The details of department wise events conducted in the last year are given in the website. • The major events organized during departmental association are Dumbcharades, Group Discussion, Power Quiz, Singing, Vocabulary, Aptitude test, Essay writing, Two minutes 2 frame, Mock the press, Power quiz, Reasoning test, Technical Quiz, Mock the press, technical seminars, Visual Quiz, Floor crossing etc. Professional Bodies : The activities under these bodies are organised by the student committees under the guidance of faculty. • The college is having professional membership in ISTE, IETE, IEEE, IE CSI professional bodies. • Every year many students register for memberships for these bodies. • The major events organized during professional bodies are Just a minute, Technical Quiz, Extempore, Aptitude Test, General Quiz, Mock Press, Floor Crossing, Elocution, A Good Word in English, Dumb Charades etc., • The members of these bodies participate in the events. Academic administrative bodies/committees of the institution : The students actively involved in various events organized by the Institution. Students representing from all the departments forms various committees. Some of the committees formed in the college are given below : • Anti Ragging committee : • Hostel committee • Technoquest committee • Various club secretary like like Literary Club, Dramatic Club, Music Club, Painting Club, Oratory Club, ICON -Video Club • Grievance Redressal Committee • Alumni Association • National Service Scheme Unit (NSS) • National Cadet Crops (NCC) • Cultural Committee • Sports Committee • Discipline Committee

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

N.B.K.R. Institute of Science Technology has its alumni association which was started in 1985 with few members. It has a governing body with President, Vice-president, Secretary, Treasurer and General Secretary and Executive body. and through its chapters spread over the country and abroad has been systemically carrying out the task of bringing together the alumni and establishing their continuous rapport with the institution. New body is elected once in every two years. The body looks after all the meetings, financial aids, and organizing various events with the help of the members of the association and under the of guidance of faculty coordinators. The Management members take part actively in all the activities performed by the alumni association. Top alumnus are placed in prestigious organisations like NITs, ADA, ISRO, SHAR, BDL, DRDO, NICMER, Hyundai, Nissan, EDS Technologies, TCS, INFOSYS, Tech- Mahindra, CTS, Mind Tree, IBM, Reliance, Honeywell, Caterpillar, Nelcast, Prime Median, Hindustan Glass, Tata Motors etc., Most of them are handling responsibilities like, Software Engineers, RD Engineers, NDT Engineers, System Engineers, Tech Support Engineers, Software Testers and other government organizations. The alumni association contributes significantly through financial and non-financial means. They provide structured feedback and valid suggestions. Alumni interaction shapes the moral, intellectual and psychological attitude of the students as they get number of chances to participate in learning, discussing, and researching about the practical knowledge. Alumni interactions are organised every year to help the present students by creating awareness about the job opportunities accessible in the present world, the strategic methods to meet the necessities of diverse competitive exams like GRE, TOFEL, and other job oriented exams like RRB, SSC, Public service commission's etc., Arranging guest lectures, internship programs, conducting workshops and seminars, providing training programs and organizing skill development programs to enhance the knowledge of the students in a variety of technical and non technical fields are some of the most important responsibilities handled by the association. Alumni staying in abroad motivate students to find their

opportunities in other countries. Alumni association has its portal/link to get membership forms for the students. Students who have completed their B.Tech course can register their names in the portal by providing their basic information.

5.4.2 – No. of registered Alumni:

2263

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

1000000

5.4.4 – Meetings/activities organized by Alumni Association :

? 25th Alumni Meet "1990-1994" batch

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

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

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

Case Study on Curriculum Review Programme : A major strongpoint of the curricula is to ensure a fine blend of techniques, skills, modern engineering tools, multidisciplinary approach and professional ethics. The curriculum review process begins with instructions from the director to start the review process as per the established procedure. He mentions any institute level policy changes to be incorporated in the curriculum. Feedback : The course content can be modified based on the inputs from the Individual Class feedback by faculty, external experts in end-semester examination, Departmental Board of Studies, Internal Quality Assurance Cell, Alumni Parents, Statutory Regulatory Authorities. 1. Departmental Review : The department assessment committee consists of program coordinator and 3-5 faculty members. It is chaired by program coordinator. The function of this committee is to identify stakeholders and conduct surveys and assess COs, POs and PEOs, monitor the attainment of targets in terms of COs, POs and PEOs. Departments analyses various reports, identifies areas of improvement and prepares need-based proposals for the following : • Improvement in the existing syllabus : inclusion, deletion and modification • Introduction of new courses : core or elective • Introduction of new programmes • Major review and revision through a Curriculum Development Workshop 2. Approvals : The proposals are placed before the following biennial in chronological order • Departmental Board of Studies with external experts as members • Academic Council • Governing Body • Approval of relevant Statutory Regulatory Authority for new programmes The decision of the BoS regarding the approval of the curriculum is intimated to the Academic Council (AC) and then adopted. A copy of the approved curriculum is submitted to the affiliating university. The minutes of the AC are presented to the governing body. Case Study on enhancing academic activities: The Director, Head of the Institute ensures the proper conditions created for the smooth functioning of all academic activities. He periodically conduct meetings with the HoDs where ideas are exchanged, made decisions for better infrastructure and improvement of academic performance of the students. The Head of the Department classifies academic works and owes the authority of deciding the activities and delegating the responsibilities to the staff members. He appoints the academic coordinators, class teachers and mentors who provide academic support, guidance and maintains the database of students, keep track the progress of the students and communicate the students progress to their parents. All the academic works are decentralized and decisions are taken based on discussion and deliberation in the departmental meeting with HOD. Various Committees like R D committee, Anti-ragging committee, grievance redressed committee etc. Suggestions/

complaint boxes have been installed at different places in the college campus in which the student/ staff, who want to remain anonymous, put in writing their grievances and their suggestions for improving the academic/ administration in the colleges. The institute giving equal importance to social awareness programmes, NSS, Sports, Photography club, Music club, Dramatic club, Literature club and Painting club are functioning regularly.

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

Yes

## 6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	<ul style="list-style-type: none"> <li>• The programme curriculum is designed such that the students demonstrate the essential knowledge, skills, and abilities needed for professional practice and higher learning.</li> <li>• It is also ensured that the curriculum aligns with the PEOs, POs and satisfies the programme specific criteria.</li> <li>• The essential elements of the curriculum are evolved by the curriculum committee taking into consideration the following guiding inputs.               <ul style="list-style-type: none"> <li>o Programme Educational Objectives</li> <li>o Programme Outcomes</li> <li>o Programme Specific Criteria</li> </ul> </li> <li>• Every faculty member of the department is made to thoroughly understand and appreciate the essence of these guiding inputs in curriculum development. The curriculum committee identifies the broad curricular components that cover depth and breadth for attainment of programme educational objectives. The curriculum components may include               <ul style="list-style-type: none"> <li>o Humanities and social sciences</li> <li>o Basic Sciences</li> <li>o Engineering sciences</li> <li>o Programme core</li> <li>o Programme electives</li> <li>o open electives</li> <li>o Mini project</li> <li>o Main project</li> <li>o Internship</li> <li>o Moocs</li> <li>o Co-curricular and extra-curricular activities</li> </ul> </li> </ul>
Teaching and Learning	<ul style="list-style-type: none"> <li>• In order to achieve the set goals of Outcome Based Education (OBE) and improve the teaching-learning process, several teaching methods are adopted in addition to the conventional chalk and talk practice.</li> <li>• To enhance the learning experience and provide new sets of skills, ICT enabled education is deeply rooted in the department. Tools for quizzes/testing (google forms), presentations (PPT), educational sources (NPTEL), videos in</li> </ul>

YouTube, multimedia tools etc. related to course contents are made available in the college servers. Video conferencing tools (Google Meet, Zoom) for conducting online classes are also made available. Handouts and video lectures prepared by the faculty of the department are also made available in the college server(s).

- Department also adopts learner centered methods to make teaching and learning more effective by arranging industrial/field visits to provide practical aspects of the course which cannot be visualized in lectures. Opportunities for interaction with experts from industry and academia are also provided through invited talks/guest lectures.
- Workshops, conferences and faculty development programmes are arranged by the department. Faculty are also encouraged and sponsored to attend conferences and workshops.
- Tutorials classes conducted by the faculty help the students in understanding the nuances of theoretical concepts through their applications in problem solving. They also aid in developing critical thinking abilities among the students.

**Examination and Evaluation**

- Examination section schedules and conducts the internal and external examinations as per the academic calendar supported by teaching and non teaching staff. End examination results are processed by our in-house software and published within the stipulated time after approval of results committee. The students are allowed for giving complaints/grievances about evaluation.
- The marks obtained by the students in the mid-term examinations and assignments are also entered in the registers.
- Examination Committee takes necessary steps to reduce malpractices.

**Research and Development**

- Research and development by faculty and students is given impetus. RD cell of this Institute looks after various research activities. Efforts are made to boost consultancy activity by all the departments.
- Research Committee exists in the college to facilitate and monitor research activities, have interactions with various research bodies for suggestions and recommendations.
- A number of MOU's have been signed with local industries



for research, consultancy and training programmes. • Industrial visits are arranged to research centers like SHAR and NARL etc. • The Institute has made many policies to promote research culture in the college. • Faculty are encouraged to participate in conferences, workshops and seminars by sanctioning them, special leaves. Incentives are offered for research publications and projects funded by external agencies like AICTE, DST, UGC etc. • Institute encourages the faculty to register for Ph.D. The faculty with doctoral degree are also encouraged to attain Research Supervisor status to guide faculty members either of the same department or other colleges for Ph.D. • All the faculty are encouraged to apply for Minor/Major Research Projects, Symposiums etc., offered by AICTE, UGC and DST etc.

Library, ICT and Physical Infrastructure / Instrumentation

As part of the IQAC initiatives ICT facilities are being extended and continuously improved all over the campus. The entire campus is Wi-Fi enabled with 150 Mbps internet connection. Keeping in mind future bandwidth requirements, the entire network is moved to OFC with gigabit media converters / ONUs. Apart from the central computing centre every department has its own computational facilities with all the required accessories and licensed software in all major areas of specializations.

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

E-governance area	Details
Planning and Development	In-house development software
Administration	<p>I• The eSSL Biometric system is used for maintaining attendance record of teaching and non-teaching staffs. Facial recognition of every staff is being recorded in the system for recognition during entry and exit time every day. At the end of the month, the details are being printed and submitted to Principal for records. • Our College website was created and maintained by the CSE Department of our Institute. Uploads all notices, announcements, photographs, reports etc. • The bulk messages facility is available to send information to students and parents.</p>
Finance and Accounts	The Accounts section use separate

	modules and software for its' smooth functioning. TALLY ERP9 was used for college and hostel accounts.
Student Admission and Support	Our In-house development software is used for taking admission of all three-year students through the college portal. Students can enter their credentials in the software, based on which the merit lists are published. The receipts are generated after payment of fees and the student details are forwarded to the Principal office and the departments to be used for all academic purposes. The student details can be availed all through the year, however the portal is closed when the admission is closed.
Examination	In-house development software. In our software Pre-examination and Post Examination operations are done through the examination portal where fill-up, approval, admit cards, entry of marks etc. can be smoothly operated. All examination related notices, schedules, instructions are uploaded in the college website.

### 6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
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No Data Entered/Not Applicable !!!

[View File](#)

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
12	12	0	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> <li>• Independent residential quarters on nominal rent are provided by the management to both Teaching and non-teaching staff.</li> <li>• Employee provident fund and gratuity schemes for the welfare of staff.</li> <li>• Group Insurance scheme for both teaching and non-teaching staff.</li> <li>• Earned leave and earned leave encashment policy to all staff.</li> <li>• Regular pay revisions as per the latest pay revision commission recommendations.</li> <li>• Annual revision of Dearness Allowance to all staff.</li> <li>• 60 days of annual paid vacation to all eligible teaching staff.</li> <li>• Special leave for attending quality improvement (workshops, FDPs, conferences etc) and other academic programmes for teaching staff.</li> <li>• Financial assistance to faculty members for membership in professional bodies.</li> <li>• Medical and maternity leave for both teaching and non-teaching staff.</li> <li>• Cash incentive for teaching staff for publishing research works in peer reviewed national and inter national journals.</li> <li>• Free primary medical services to all the staff in the fully equipped campus clinic with qualified medical</li> </ul>	<ul style="list-style-type: none"> <li>• Independent residential quarters on nominal rent are provided by the management to both Teaching and non-teaching staff.</li> <li>• Employee provident fund and gratuity schemes for the welfare of staff.</li> <li>• Group Insurance scheme for both teaching and non-teaching staff.</li> <li>• Earned leave and earned leave encashment policy to all staff.</li> <li>• Regular pay revisions as per the latest pay revision commission recommendations.</li> <li>• Annual revision of Dearness Allowance to all staff.</li> <li>• Financial assistance to the children of economically backward staff studying in the Institute through various foundations/trust run by the management.</li> <li>• Medical and maternity leave for both teaching and non-teaching staff.</li> <li>• Free primary medical services to all the staff in the fully equipped campus clinic with qualified medical doctor and a paramedic.</li> <li>• Organizing Health camps in the campus for both teaching and non-teaching staff.</li> <li>• In case of any personal loss to any staff, the management provides all possible assistance to the grief stricken family of the staff.</li> </ul>	<ul style="list-style-type: none"> <li>• Organizing Health camps in the campus for students</li> <li>• The college through its various initiatives supports students - Computer Centre (CRC), Library, Book bank, Canteen, Anti-Ragging Cell.</li> <li>• In-campus Hostel</li> <li>• Internals Complaints Committee (ICC), SC/ST Cell, Women Development Cell, Placement Cell</li> <li>• Internships, Students' Grievance Committee, NCC NSS,</li> <li>• Democratically Elected Students' Association, Sports and Cultural Societies</li> <li>• Functional and updated college Website, In-campus bank ( Union Bank of India Bank).</li> </ul>

doctor and a paramedic. • Organizing Health camps in the campus for both teaching and non-teaching staff. • In case of any personal loss to any staff, the management provides all possible assistance to the grief stricken family of the staff.

## 6.4 – Financial Management and Resource Mobilization

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

Every financial year budget proposals are made on different heads such as laboratory equipment, library expenses, salary payments, building infrastructure and other maintenance expenses. These proposals are verified by the finance committee and submitted to the governing body for its consideration and approval. Internal audit A institute level finance committee comprising of the Director, Auditor and a senior faculty member receives, reviews and suggests appropriate changes in the proposals received under various heads from all the departments in the institute. The internal finance committee examines the budget proposals, receipts, bills and vouchers and supporting documents for the current year and takes care of the continuous internal audit of the institution. The finance committee, after the scrutiny, may caution the concerned department for any possible deviations from the established procedures. External audit A chartered accountant and his team are engaged to carryout external audit. The financial audit team visits the institute regularly to carryout the auditing. Any audit objections found /raised in the external audit are notified to the accounts officer and the director. Objections are dropped if an acceptable justification is provided. Otherwise, depending on the seriousness of the objection(s), the audit team suggests appropriate measures to prevent their recurrence. The accounts audited are submitted to the governing body for approval.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
<b>No Data Entered/Not Applicable !!!</b>		
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

200000

## 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Null	Yes	Internal Department Committee University Professors

Administrative	No	Null	Yes	Finance Committee, Stock Verification in the Laboratories
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6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

? Every semester, parents and instructors meet to discuss their childrens activities and performance on internal and external exams. ? Parental feedback is collected to help the department and institution grow as a whole. ? Some parents serve on the Department Advisory Board (DAB), which oversees student activities. ? Regular parent-teacher meetings are organized to discuss academic performance based on reports supplied to parents. Parents appreciate suggestions in academic and administrative areas, which instructors endeavour to implement to the best of their abilities.

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

? Faculty members provide technical training to lab staff in order to ensure that laboratories run efficiently. ? The Institute provides proper technical training to all supporting personnel on a regular basis to ensure that they have up-to-date technology abilities and can function effectively in the workshops. ? Free medical check-ups are provided for the support staff.

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

• All UG courses offered by the institute are accredited by National Board of Accreditation (NBA) for the fifth time, twice under Tier-1 from the academic year 2019-20 to 2021-22. • Over Rs. 1,82,47,860/- have been spent for improvement of infrastructural facilities like purchasing of additional equipments for the laboratories, furniture, purchase of vehicles etc. • The Institute has been issued 10(A) Naval Unit with a capacity of 50 cadets, in the year 2020.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
<b>No Data Entered/Not Applicable !!!</b>					
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**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

**7.1 – Institutional Values and Social Responsibilities**

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
WOMEN IN	28/02/2020	28/02/2020	135	55

SCIENCE				
The Contribution of Women as Entrepreneurs for the Development of Modern Society	08/03/2020	08/03/2020	70	15
Women Empowerment	02/03/2019	02/03/2019	86	35

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
76.42

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	Nil
Rest Rooms	Yes	Nil
Provision for lift	Yes	Nil
Physical facilities	Yes	Nil
Any other similar facility	Yes	Nil
Scribes for examination	Yes	Nil
Braille Software/facilities	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	10/04/2019	1	Awareness of the importance of blood donation	Advantages of the Blood donation and benefits for blood donor	220
2019	1	1	26/07/2019	1	Awareness on adverse effects of agriculture Pesticides	Knowledge and awareness of the risks of pesticide use among	28

					on Human Society.	farmers in villages around the institute.	
2020	3	3	06/01/2020	3	Vital role of 'Information and communication Technology (ICT)' tools for government school students	Importance of developing communication skills and improving the use of ICT technologies for a brighter future.	94
2020	1	1	10/02/2020	1	Raising awareness in adjacent villages about the importance of installation and benefits of solar panels	Explaining the significance of conventional energy technologies and how solar panels technology delivers adequate power for household purposes. Geographically, how the location of villages are important for effective generation of the power in good q	12
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Awareness program to the students	20/11/2019	The significance of human values and their

role to become as good human being in the society, the development of ethics in both academic sector and professional sectors and thus to build a strong nation, highlights the institutions operations, the norms and code of conduct that must be adhered to at the institute, the calendar of activities, and the disciplines that must be observed on campus. Social responsibility and manners environmental issues.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Significant initiatives have been taken by the Institute to ensure that its campus is eco-friendly and clean. 1. Rainwater conservation and wastewater conservation Energy conservation. 2. A 300-KW solar system has been installed over the top of two academic buildings, and correspondingly generated solar energy supports to conserve the utility of electricity. 3. Planation of different types of plants and green initiatives have been taken to transform the conventional campus into a green campus. The lush green garden bordered by avenue trees and shrubs helps with carbon neutrality. 4. Inside the Institute campus and hostel premises, the students are encouraged to use bicycles, and their fossil fuel-based vehicles are not allowed to use their own. 5. Plastic waste management in and around the premises of the college and in hostel. 6. The institute has banned the use of plastic cups, lunch packets, straws, bottles, and bags on the campuses in order to maintain a plastic-free campus.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice - 1: Enhancement of Campus Recruitment Quality 1. Title of the Practice: Enhancement of Campus Recruitment Quality 2. Objectives of the practice: Campus recruitment is the strategy of sourcing, engaging, and hiring talented students from various universities and engineering colleges. Currently, all the stakeholders of the higher education institutions are considering campus recruitment as a benchmark during the selection of engineering colleges to get admission for quality education and to accomplish their childrens engineering dreams, and thereafter to get recruitments in reputed MNCs in the future. In this context, recognizing the challenges encountered during the enhancement of campus recruitment is the key to success. In this order, the identified challenges are listed as follows: ? Inadequate student aptitude and attitude. ? Decrease in campus recruitment drive visits. ? Intangible recruitment opportunities in product-based MNCs. ? Gradual increase in package slabs of below-average and high-paying jobs. ? Students not meeting



eligibility criteria due to insufficient knowledge and soft skills. To improve campus recruiting, the NBKR Institute of Science and Technology (NBKRIST) has implemented innovative measures as objectives, as listed below, to address the aforementioned challenges. ? To increase number of practicing classes for the enrichment of student's aptitude and attitude. ? To enhance the employability skills of the students to make them job ready. ? To select potential and suitable faculty members for the establishment of a 'subject expert team' to train the students. ? To increase the number of companies visiting for campus placement ? To become one of the preferred recruitment destinations ? To link up job seekers with employers through job fairs.

3. The context: The India Skills Report (ISR) 2019 shows that 47.38 of students are employable, a 2-3.3 increase over the last 5 years, indicating the importance of professional experience for engineering students. Campus recruitment drives are a common method for selecting candidates from institutions, with various firms seeking talented individuals. These drives provide opportunities for students to start their professional careers. The Training and Placement Cell at NBKRIST aims to improve students skill development for campus recruitments and increase employment rates. Feedback from alumni, students, corporates, and academia-industry experts is considered.

4. The Practice: Engineering students receive continuous instruction to prepare for their future careers. Formal training programs help students acquire necessary skills and knowledge. TP cells at NBKRIST develop strategic training programs to enhance aptitude, attitude, technical skills, and practical knowledge in core subjects. They have dedicated faculty, external experts, online assessments, and separate coding training for aptitude, reasoning, and communication skills. These programs help students develop confidence and secure employment.

5. Evidence of Success: The measures initiated by TP had a significant impact on improving campus recruitment. Over time, students are offered higher salaries. This is one of the parameters considered as one of the issues. It is addressed by devising the most effective continuous monitoring and control are part of the training process. The NBKRIST TP cells ongoing efforts to improve student campus recruiting are demonstrated by the recruitment statistics that is now accessible for each department, as stated below.

Academic years 2017 - 2018:	ECE 66	CIVIL 82	MECHANICAL 68	EEE 62	CSE 58
Academic years 2018 - 2019:	ECE 94	CIVIL 78	MECHANICAL 93	EEE 60	CSE 84
Academic years 2019 - 2020:	ECE 68	CIVIL 74	MECHANICAL 58	EEE 54	CSE 58

Nonetheless, progress is an ongoing process that entails converting weaknesses into strengths and ultimately to reach the benchmark to improve the campus recruitment number in total. In this context, TP has taken all necessary steps to skill the students in accordance with future industry demands in order to further enhance the recruiting numbers of students.

6. Problems Encountered and Resources Required Overcoming challenges and turning them into strengths is a continuous process of progress. The following problems encountered throughout this process: ? Multiple training programs, such as those that improve technical, soft, and aptitude abilities, must be identified in accordance with industry needs. ? The institute should provide advanced software and technology in every subject and provide students hands-on exposure to boost placement and employability in essential areas. ? Students interests change in response to market changes. Impacting the location of the core ? Since internships provide doors to employment and many employers are looking for six-month undergraduate interns, departments should support them. ? To meet industry expectations, there is a need to improve industry relations.

Best Practice - 2: Improving Bus Transportation Facility to Stakeholders

1. Title of the Practice: Improving Bus Transportation Facility to All Stakeholders

2. Objectives of the practice: NBKRIST, a rural college, has its own bus transportation system for students and faculty to reach Vidyanagar. This ensures timely arrival and methodical operations. The colleges bus transportation is a major factor in parents decisions to choose the institute. NBKRIST must address difficulties in improving the number of buses and sustainability to operate efficiently. ?

Availability of reliable and experienced drivers ? Inadequate number of buses to provide transportation facility to all students come from various regions surrounded by the institute. ? Vehicle maintenance to ensure safe transportation and to follow hygienic measurements inside the buses. ? Synchronizing all the buses timing to reach the institute intime. ? Real-time decisions to monitor student disciplinary matters for the smooth functioning of the transportation system. The following measurements have been implemented by the NBKR Institute of Science and Technology (NBKRIST) to improve the bus transportation facility and ensure that the transportation system is operated efficiently. ? Recruitment of experienced, dedicated drivers for safety. ? Negotiations with management to increase bus numbers. ? Speed control through speed governors. ? Monitoring of safety and hygiene measures. ? Preparation of bus root maps and effective transportation procedures. ? Establishment of a system for bus-in-charge to track student activity and prevent unethical behavior. ? Routine scheduling of bus routes with route-in-charges. ? Overseeing and coordinating daily transportation activities. ? Regular checks and reporting of bus condition for appropriate action.

3. The Context: Andhra Pradesh is seeing an increase in engineering colleges to provide quality education and meet industry requirements. Parents are choosing local institutions based on transportation amenities to ensure their childrens B.Tech. studies are completed without issues. Information and communication technology platforms have increased the chances of all students getting hired. The availability of college bus transportation is crucial for increasing student admissions. NBKRIST is enhancing transportation facilities by purchasing new buses and facilitating 50 under the Transpiration Service Cell (TSC). TSC ensures student safety, maintains bus attendance registers, provides health checkups, and collects transportation fees, aiming for better salaries and service.

4. The Practice: Students enrolled to utilize the bus transportation facility receive regular instructions from TSC with goal of instructing about the rules to follow while get in and during transportation time. Students are required to adhere to disciplinary processes and keep their identity card, which is provided by the institution. Every bus route is overseen by the bus supervisor, who makes decisions in real time to ensure the seamless operation of the whole transportation system. Teaching staff keeps an eye on the pupils while they are being transported to make sure they are safe. They also take extra care to avoid any ragging within the bus and unethical behavior on the part of the children.

5. Evidence of Success: NBKRIST, a rural college, struggles with limited government buses for students to reach its campuses. In 2013, the college purchased one bus to improve transportation facilities. This has influenced parents decisions to send their children to NBKRIST for sponsored courses and attracted competent faculty members. Despite competition from other engineering institutions, the inclusion of bus transportation facilities has improved student admissions in all sponsored courses.

Sl.	No	Academic Year	Availability	No. of Buses	No. of students got admitted	No. of students Registered for bus transportation facility
1	2013 - 2014	01	616	40	2	13
2	2014 - 2015	05	556	250	3	13
3	2015 - 2016	09	623	450	4	13
4	2016 - 2017	13	595	615	5	13
5	2017 - 2018	20	678	1000	6	13
6	2018 - 2019	28	658	1400	7	13
7	2019 - 2020	32	703	1600	6	13

6. Problems Encountered and Resources Required The following problems are encountered during development of bus transportation facility to the students and faculty.

1. Make sure the drivers follow the designated route without deviating from it.
2. The technical concerns around the necessary licenses, permits, and approvals for drivers are the subject of discussions and decisions.
3. Maintaining the necessary disciplinary procedures.
4. Synchronizing the all-buses timings to reach the college intime.
5. Maintaining the sustainability of the bus maintenance and timely collection of the bus charge from students.
6. In order to track all of the buses and give accurate pickup and drop-off times to all college stakeholders, TSC of NBKRIST is attempting to acquire Geo-tagging for every bus.

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

<https://www.nbkrist.co.in/>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Institutional distinctiveness encompasses the distinctive characteristics and qualities that differentiate an educational institution from others, including its mission, vision, values, academic programs, and support services. The Institute is devoted to the holistic development of its students and offers them every opportunity and resource to help in their growth, and this is one of the most distinctive features of the Institute. The evaluation of academic achievements at NBKRIST occurs through the setting of goals and expectations that are linked to the aspirations for outcomes. NBKRIST has taken into account the development of its students in all areas, including intellectual, social, emotional, and physical, by promoting holistic development through student-centric activities. ? The institute combines latest pedagogy approaches with well-planned and effective teaching and learning activities to implement its own curriculum. ? In addition to academic offerings, the institute stands for its focus on holistic development, which includes providing students with a wide range of add-on facilities that go beyond the traditional classroom experience. ? NBKRIST is strongly committed to promote high quality research, innovation and publications promote practical sense of human values in education for fruitful contribution to the societal development and to promote equity and inclusion in the institute in its true spirit at every level. ? The students undertake activities to spread social awareness about various burning topics, such as Swatch Bharat, tree plantations, etc. While doing so, students become aware of societal issues and think of possible solutions to them. ? The institute holds annual sports and events every year that involve different sports to develop important skills such as team spirit, confidence, decision-making, and mental strength among its students. The students are facilitated to work on relevant problems related to society, industry through projects like minor and major projects. ? Institute is effectively following the 'mentor and mentee' system to develop emotional development. During meetings, students can discuss their academics and personal problems with the Mentor. A professional counselor is employed in institute who helps the students in need.

Provide the weblink of the institution

<https://www.nbkrist.co.in/>

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

? All faculty members will receive training to improve their digital abilities and use of technology in order to build a blended mode of teaching, which is both effective and inevitable in the future. ? Organize national scientific seminars and increase the number of invited guest speakers in each department. ? To provide a centralized facility, at least one Center of Excellence in specialty areas for the advancement of industry-oriented education will engage in international MoUs. ? Encourage and promote the usage of online resources such as NPTEL, SWAYAM, and MOOCs by staff and students. ? Encouraging academics to acquire advanced software abilities to construct theoretical research platforms in their areas of expertise and publish articles in reputable national and international scientific publications.