



## **YEARLY STATUS REPORT - 2020-2021**

### **Part A**

#### **Data of the Institution**

##### **1. Name of the Institution**

**N.B.K.R. Institute of Science & Technology**

- Name of the Head of the institution **Dr. V. VIJAYA KUMAR REDDY**
- Designation **Director**
- Does the institution function from its own campus? **Yes**
  
- Phone No. of the Principal **8985382247**
- Alternate phone No. **8985159547**
- Mobile No. (Principal) **7382297655**
- Registered e-mail ID (Principal) **ist@nbkrist.org**
- Address **Kota Mandal, Tirupati Dist.**
- City/Town **Vidyanagar**
- State/UT **Andhra Pradesh**
- Pin Code **524413**

##### **2. Institutional status**

- Autonomous Status (Provide the date of conferment of Autonomy) **28/06/2019**
- Type of Institution **Co-education**
  
- Location **Rural**

- Financial Status **Self-financing**

- Name of the IQAC Co-ordinator/Director **Dr. I. Prabhakar Reddy**
- Phone No. **8985382247**
- Mobile No: **9440366871**
- IQAC e-mail ID **iqac@nbkrist.org**

**3. Website address (Web link of the AQAR (Previous Academic Year)** <https://www.nbkrist.co.in/aqar.php>

**4. Was the Academic Calendar prepared for that year?** **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: <https://www.nbkrist.co.in/academical.php>

#### **5. Accreditation Details**

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.02	2008	16/09/2008	15/09/2013
Cycle 2	A	3.08	2014	10/12/2014	09/12/2019
Cycle 3	A	3.15	2021	15/02/2021	14/02/2026

**6. Date of Establishment of IQAC** **20/03/2009**

**7. Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?**

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
N.B.K.R. Institute of Science & Technology	CPE scheme	UGC	01/04/2016	0

#### **8. Provide details regarding the composition of the IQAC:**

- Upload the latest notification regarding the composition of the IQAC by the HEI [View File](#)

**9.No. of IQAC meetings held during the year 2**

- Were the minutes of IQAC meeting(s) and Yes compliance to the decisions taken uploaded on the institutional website?
- If No, please upload the minutes of the meeting(s) and Action Taken Report No File Uploaded

**10.Did IQAC receive funding from any funding agency to support its activities during the year? No**

- If yes, mention the amount

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

- During the pandemic time period, IQAC initiated all necessary steps to provide proper ICT training skills to the faculty members and to conduct online classes via Microsoft Teams platforms. In the same order, IQAC is encouraged to conduct online quizzes and subject-oriented online activities by the faculty members for the benefit of the students.
- IQAC encourages faculty members to improve their academic and research skills by registering and attending online FDPs, workshops and scientific webinars.
- For AY 2020 - 21, IQAC suggests the Academic Council to design the current curriculum accordingly in order to improve the skills of the students and thus to enhance number of students recruitment in various companies.
- IQAC suggests the HODs ensure the completion of all departmental files for the NAAC visit, and as a result of teamwork, the institute got NAAC accreditation with 'A' grade.
- IQAC reviews precautionary steps to follow accordingly in the COVID-19 situation to complete the 2019-20 academic year, 2nd midterm, and final exams successfully.

**12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:**

Plan of Action	Achievements/Outcomes
To enhance the utilization skills of ICT tools to conduct online classes for the students in a productive manner and to continue the learning process during the pandemic time period.	Three Demo sessions were conducted on 'Microsoft Teams software' and all the teaching faculty members in NBKRIST got benefited
To prepare the administration division and faculty for NAAC visit	NBKIRST was accredited with a grade of 'A'.
To improve the student's employment capability and students' recruitments	399 students got offers from various companies.
To prepare video recordings for practical courses and for theory classes	Faculty members from all the departments have prepared lecture videos.
To encourage the faculty to submit project proposals to various scientific agencies and publish papers in scientific journals.	Successfully faculty members submitted research proposals for RPS and AICTE FUNDING agencies.

**13. Was the AQAR placed before the statutory body?** Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
The Governing Body	17/07/2020

**14. Was the institutional data submitted to AISHE ?** Yes

- Year

**Part A****Data of the Institution**

<b>1.Name of the Institution</b>	<b>N.B.K.R. Institute of Science &amp; Technology</b>
• Name of the Head of the institution	<b>Dr. V. VIJAYA KUMAR REDDY</b>
• Designation	<b>Director</b>
• Does the institution function from its own campus?	<b>Yes</b>
• Phone No. of the Principal	<b>8985382247</b>
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• Mobile No. (Principal)	<b>7382297655</b>
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• State/UT	<b>Andhra Pradesh</b>
• Pin Code	<b>524413</b>

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• Name of the IQAC Co-ordinator/Director	<b>Dr. I. Prabhakar Reddy</b>

• Phone No.	8985382247
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<b>4. Was the Academic Calendar prepared for that year?</b>	<b>Yes</b>
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<ul style="list-style-type: none"> <li>Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?</li> </ul>	<b>Yes</b>			
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded			
<b>10.Did IQAC receive funding from any funding agency to support its activities during the year?</b>	<b>No</b>			
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>				
<b>11.Significant contributions made by IQAC during the current year (maximum five bullets)</b>				
<ul style="list-style-type: none"> <li>During the pandemic time period, IQAC initiated all necessary steps to provide proper ICT training skills to the faculty members and to conduct online classes via Microsoft Teams platforms. In the same order, IQAC is encouraged to conduct online quizzes and subject-oriented online activities by the faculty members for the benefit of the students.</li> </ul>				
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<b>12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:</b>				

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• Name of the statutory body	
Name of the statutory body	Date of meeting(s)
The Governing Body	17/07/2020
14. Was the institutional data submitted to AISHE ?	Yes
• Year	
Year	Date of Submission
2020-21	22/02/2022

## **15.Multidisciplinary / interdisciplinary**

The National Education Policy (NEP) - 2020 aims for access, equity, inclusivity, and quality. NBKRIST is focusing on an interdisciplinary approach, in which the curriculum consists of humanities, basic science, engineering science, and professional core.

## **16.Academic bank of credits (ABC):**

NBKR Institute of Science & Technology is affiliated to university of JNTUA, Ananthapuramu. Academic Bank of Credits (ABC) is taken care by the JNTUA.

## **17.Skill development:**

- The division of skill development has a prominent role in enhancing the overall student's caliber and employability by providing adequate training.
- Training and placement team members conduct training on programming languages for the final-year students to prepare them to face placement interviews successfully.
- All the department heads encourage the students to register for online courses on core subjects through different LMS platforms.
- To improve language communication skills, for the present academic year, a special training on soft skills is conducted for all branches of students.
- The CSE department provides necessary training to the faculty and students on how to use the Microsoft Teams platform to conduct or attend the course in online mode.

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

In the line of NEP 2020 initiatives, NBKRIST has taken the decision to introduce a course on universal human values (UHV) under R 20 regulations. The objectives of the course are to explain the values to the students and to change their attitude and thinking to make a better society. Indian culture teaches and suggest to practice the art of human coexistence, understanding the need for peace and harmony, and professional ethics. Hence, for the current academic year all these subject points are included in the syllabus of designed UHV course.

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

- Better opportunities for the students towards higher education, equipping them with updated academic and

technical skills, and thus wide scope for the enrichment of student employability.

- Boost the Academic Council's performance in order to execute academic plans effectively and to ensure the skill development of the students.
- Conducting alumni and current students' meetings to exchange views and experiences, and provide updated job opportunities.
- Students receive quality education to attain their aspirations for higher education.
- The continuous pursuit of excellence.

## 20. Distance education/online education:

During the pandemic period, NBKRIST has provided technical training for all faculty members and students to get acquainted with 'Microsoft Teams/Google Meet' for the purpose of preparing and delivering the lectures and to monitor the attendance of the students in online mode. Faculty from each department conducted quizzes, motivational classes for problem solving, tips to maintain stress, and eventually assessed their assignments through online mode. Few faculty members recorded their lectures delivered online. NBKRIST constantly encouraged all the faculty members to make use of their free time for the preparation of minor or major scientific projects, to submit to various scientific organizations, and to actively participate in online international and national conferences.

## Extended Profile

### 1. Programme

1.1

11

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 2. Student

2.1

3271

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>

2.2

**583**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.3

**3235**

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

**3.Academic**

3.1

**476**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

3.2

**164**

Number of full-time teachers during the year:

## Extended Profile

### 1.Programme

1.1

**11**

Number of programmes offered during the year:

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Institutional Data in Prescribed Format	<a href="#">View File</a>

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2.1

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### 3.Academic

3.1

**476**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

3.2	<b>164</b>
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.3	<b>5</b>
Number of sanctioned posts for the year:	
<b>4.Institution</b>	
4.1	<b>378</b>
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	<b>68</b>
Total number of Classrooms and Seminar halls	
4.3	<b>915</b>
Total number of computers on campus for academic purposes	
4.4	<b>1841.35</b>
Total expenditure, excluding salary, during the year (INR in Lakhs):	

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

**By considering dynamically changing local and regional needs, NBKRIST upgrades the curricula of all courses through periodic revisions in accordance with the guidelines of JNTUA, AICTE, and UGC and thus enhances the technical skills of the students to meet the requirements of global and national developments. NBKRIST implements the "outcome-based education" methodology in order to develop effective curriculum for each**

program with a strong emphasis on the POs, PSOs and specific attention has given to COs by the considering the regional aspects. As part of curriculum modification, NBKRIST considers suggestions from academia, industry sectors, and all stakeholders of the institute, as well as approval from the institute's academic council, to discuss course contents, COs, and their appropriateness for achieving the POs, PSOs, and PEOs.

File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	<a href="https://www.nbkrist.co.in/Syllabus/R20(a)_CSE-16-05-24.pdf">https://www.nbkrist.co.in/Syllabus/R20(a)_CSE-16-05-24.pdf</a>

#### 1.1.2 - Number of Programmes where syllabus revision was carried out during the year

10

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<b>No File Uploaded</b>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

#### 1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

109

File Description	Documents
Curriculum / Syllabus of such courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<a href="#">View File</a>
MoUs with relevant organizations for these courses, if any	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**1.2 - Academic Flexibility****1.2.1 - Number of new courses introduced across all programmes offered during the year**

46

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

**1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System**

7

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

**1.3 - Curriculum Enrichment**

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

NBKR Institute of Science & Technology aims to promote practical sense of human values in education for fruitful contribution to the societal development. In accordance with this, NBKRIST strives to foster moral and human values in students' minds and thus mold them into responsible individuals who can take on responsibility in any circumstance or stage for the benefit of their living communities, thus contributing to the construction of a strong nation. In an effort to accomplish the institute's objective, NBKRIST has decided to incorporate the following courses into the curriculum to address cross-cutting issues related to gender, human values, professional ethics, the environment, and sustainability.

- Non-Conventional Energy Resources, Green Chemistry and Catalysis for Sustainable Environment, Design of

- Photovoltaic Systems, Wind Electrical Systems
- Introduction to Intellectual Property Rights, Indian Constitution, Essence of Indian Traditional Knowledge, Business Ethics and Corporate Governance.
- Environment and Sustainability: Disaster Management, Environmental Science, Water Supply and Waste Water Engineering, Environmental Engineering.
- Soft Skills, Human Resource Development.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year**

**11**

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**1.3.3 - Number of students enrolled in the courses under 1.3.2 above**

**1609**

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.3.4 - Number of students undertaking field work/projects/ internships / student projects**

**580**

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

## 1.4 - Feedback System

**1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni**

**A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	<b>Nil</b>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<b>No File Uploaded</b>
Any additional information	<a href="#">View File</a>

**1.4.2 - The feedback system of the Institution comprises the following**

**A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	<b>Nil</b>
Any additional information	<a href="#">View File</a>

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Enrolment of Students

##### 2.1.1.1 - Number of students admitted (year-wise) during the year

**816**

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

## 2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

607

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## 2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

NBKIRST follows a specific methodology to assess students' learning levels through MID-II and MID-II exams. After completion of the MID-I exam, each faculty member identifies the slow learners from their sections and conducts remedial classes in hybrid mode to motivate them to secure more than 60% marks and eventually prepare their mind set to clear the MID-II and end-of-semester exams with fruitful results. Students with 80 % or more marks are encouraged to learn advanced topics through online certification courses and learn foreign languages. They are motivated to research advanced topics through technical seminars, events, and hackathons. Students participate in national and international competitions, internships, paper presentations, and real-time problem-solving.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
20/01/2021	3292	164

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## 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:

The Innovation and Incubation Center (IIC) of NBKRIST encourages all faculty members to adopt lecture methods, interactive methods, project-based learning, computer-assisted learning, and experiential learning. These methods are effective through illustrations, special lectures, PowerPoint presentations, and interactive activities like group discussions. In NBKRIST, all departments practice student-centric methods, including experiential learning, participatory learning, problem-solving, and class presentations, to enhance learning activities, develop technical skills, encourage creativity, and promote cognitive development. All departments foster student development through innovative programs that encourage creativity, problem-solving, and participative learning. They implement student-centric methods to enhance lifelong learning skills. The NBKRIST introduces innovative student-centric teaching methods like hackathons, workshops, seminars, virtual labs, roleplay, video demonstrations, and more to encourage active, problem-solving, and experiential learning in various fields.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="#">Nil</a>

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Information and communication technology (ICT) tools transform teaching and learning methodologies from teacher-centric to student-centric, resulting in increased learning gains and opportunities. ICT tools are cost-efficient, eliminating paper

use, saving time during lectures, and facilitating dynamic teaching methods. In addition, ICT tools are powerful tools for educational change and reform, raising student interest and connecting learning to real-life situations, resulting in improved performance and enjoyment of learning. NBKRIST encourages the faculty members to make use of ICT-enabled tools, including online resources, in classrooms and labs to enhance teaching and learning processes, incorporating advanced knowledge and practical skills from teachers and software. NBKRIST adheres to promoting green practices by utilizing ICT resources, a home-made management system, and Google cloud-based storage facilities. NBKRIST continuously encourages faculty to practice various teaching methods, including traditional teacher-centered lectures and interactive, collaborative methods like Microsoft Teams and Google Classroom. Faculty also utilize IT-enabled learning tools like PPT, video clippings, animations, and online resources, along with providing reading materials and lab manuals via email. During the pandemic period, NBKRIST arranged projectors in classrooms and labs to integrate new pedagogies, while email, group mail, and social networking tools facilitated instant communication and information dissemination.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="#">Nil</a>
Upload any additional information	<a href="#">View File</a>

### 2.3.3 - Ratio of students to mentor for academic and other related issues

#### 2.3.3.1 - Number of mentors

140

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

#### 2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

The director of NBKRIST prepares the academic calendar by following the suggestions from all heads of departments, IQAC and academic council. The aim of the academic calendar to provide detailed instructions, mid-term and end-semester exam dates, enabling students and faculty to plan semester-specific activities in advance. In the framed academic calendar, each academic year comprises two semesters, each lasting \*\* weeks, each accommodating \*\* working days. At the beginning of each semester, academic calendars for all programs are made available on the institute website, with well-prepared teaching plans based on the calendar, including lesson plans, handouts, lecture notes, quizzes, and seminar topics. Academic Calander instructs the placement cell of NBKRIST to schedule training programs for the students during regular class work in an effective manner and to equip the students with the necessary soft skills to get recruited in various MNCs.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

### 2.4.1 - Number of full-time teachers against sanctioned posts during the year

164

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### 2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

51

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)**

**1377**

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**2.5 - Evaluation Process and Reforms**

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

**45**

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year**

**2**

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

#### **Processes integrating IT**

1. Preparation of staff Time table & Class Time table
2. QP pattern Template made available in intranet.
3. Final Attendance shortage list generated from system
4. Students, parents & staff to view Test Time table, exam Time table, Test mark
5. Result analysis reports like Course-wise pass percentage before moderation, Fail list before moderation, and Moderation list are generated for result passing board.
6. The reports like award list, Individual student result, Fail list after moderation and Pass percentage are sent to Departments.

#### **Continuous internal assessment system**

1. Mid-semester review of student attendance and marks
2. Attendance entry by course handling faculty for every hour
3. Faculty assessment by student
4. Student attendance monitoring

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<b>Nil</b>

## 2.6 - Student Performance and Learning Outcomes

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

Yes. All the students are educated regarding the program outcomes. Each Department prepares its own academic plan by incorporating the program inputs and outcomes. Same is communicated to the students and staff. Outcome Based Education (OBE) is implemented in this Institute since 2013 as OBE give emphasis on what is expected from the student when they finish their course. In line with OBE Program Specific Outcomes (PSOs), Program Outcomes (POs) and Course Outcomes (COs) are evaluated. OBE helps the student to achieve the outcomes of significance before leaving the Institute. Every department establishes the Program Specific Outcomes (PSOs), Program Outcomes (POs) in line with the Graduate Attributes mandated by NBA and PEOs of the programme by considering the inputs from faculty and alumni in cognizance of latest technology demand, job prospects and societal requirements. The COs of all courses are communicated to the students through Curriculum Book and through Institute website. The POs/PSOs/Program Outcomes (POs) are displayed in the following locations: 1. Institute Website ([www.nbkrit.org](http://www.nbkrit.org)) 2. Department Notice Boards 3. Department Library 4. Academic Regulations and Curriculum Book Disseminated to: 1. Students / Parents in student orientation programme.

2. Alumni / Employer / Academicians visit the department on various occasions.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Link for additional Information	<b>Nil</b>

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

- The curriculum consists of various courses and each course contributes the program outcomes. Each course has few course outcomes depending the course content using Blooms Taxonomy, each course outcome correlated with the certain

program outcome.

- The course outcomes of each course are assessed qualitatively and quantitatively for each student.
- Qualitative methods indirectly help the students to improve the quantitative attainment levels of each course.
- The quantitative attainment level of each student on each course outcome is directly measured using semester internal examinations and end examinations.
- The surveys are indirectly used to evaluate the attainment level of course outcome/program outcomes.
- The following processes & tools are used for the attainment of course outcomes.

**1. Mid Examinations:**

**2. Semester End Examination:**

**3. Assignment:**

**4. Practical/Laboratory works/Project**

**Attainment of Program Outcomes and Program Specific Outcomes:**

**List of assessment tools & processes:**

- Direct assessment
- Indirect assessment

**The quality/relevance of assessment tools/processes used:**

- The attainment of the PO & PSO is computed as a weighted average of attainment of the COs that are mapped to the given PO&PSO. The overall PO & PSO attainments are calculated by considering direct attainment and indirect attainment through surveys.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://103.159.250.196/assessment/EBCOAttainment/">http://103.159.250.196/assessment/EBCOAttainment/</a>

**2.6.3 - Pass Percentage of students****2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution****587**

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Paste link for the annual report	<b>Nil</b>

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

<https://www.nbkrist.co.in/Iqac/SSC2020-2021.pdf>

**RESEARCH, INNOVATIONS AND EXTENSION****3.1 - Promotion of Research and Facilities**

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

**NBKIRST is continuously striving to improve the research facilities and encourage the faculty to promote research in their 'research area of expertise'.**

1.

**Radial Feeder Protection Simulation Unit**

**Conducting simulation experiments on time and current grading.  
Over current protection, line faults**

2.

**MATLAB**

Conducting simulation lab experiments, performing optimization methods, implementing projects in SIMULINK

3.

Electrical Testing Equipment

Measuring and testing in various systems and materials

4.

ETAP

Analyze and Perform the projects in power system area

5.

DSP based BLDC motor

BLDC motor with hall sensor

Doping projects along with regular experiments

6.

Thermal Engineering Stream

- Computerized Research engine Test Rig
- AVL make Exhaust gas analyzer (5 Gas)
- AVL Smoke meter
- Provide Engine operational training for research scholars and students with engine

7.

Production Engineering Stream

- Computerized Aluminum alloy stir casting machine
- Electronica make 50amp ZNC EDM
- 50 Ton Hydraulic press.
- TIG welding machine
- 300X300x300mm FDM machine- 3D printer

8.

Robotics Research and training centre

- ABB make IRB 1600 robot industrial robot - 1.45m each
- Robot studio simulation software
- Integrated fusion deposition modelling setup for industrial robot
- Mobile robot research platforms using Atmega 2560 - firebird v5 and spark V5 kits

9.

CAD/CAM/CAE

- Dassault Systemes (Centre of Excellence) - CATIA, ENOVIA, ABACUS, DELMIA

10.

AVEVA COE

- AVEVA plant Design and Manufacturing System software

11.

Virtual Instrumentation Laboratory

- NI Labview software
- My Rio with total mechatronic kit
- Matlab software

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	<b>Nil</b>
Any additional information	<a href="#">View File</a>

**3.1.2 - The institution provides seed money to its teachers for research**

**3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)**

0

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<b>No File Uploaded</b>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<b>No File Uploaded</b>
List of teachers receiving grant and details of grant received	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### 3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

1

File Description	Documents
e-copies of the award letters of the teachers	<a href="#">View File</a>
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

## 3.2 - Resource Mobilization for Research

### 3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

2

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<a href="#">View File</a>
List of projects and grant details	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.2.2 - Number of teachers having research projects during the year**

2

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional Information	<b>Nil</b>
List of research projects during the year	<a href="#">View File</a>

**3.2.3 - Number of teachers recognised as research guides**

9

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

**3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year**

2

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	<a href="https://portal.aicte-india.org/">https://portal.aicte-india.org/</a>
Any additional information	<b>No File Uploaded</b>

**3.3 - Innovation Ecosystem**

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

**NBKIRST has established 'Innovation & Incubation' Center to develop research culture and create awareness on entrepreneurship for the students. The Institute has established**

Institution Innovation council (IIC) in collaboration with MHRD Innovation council (MIC) in the year 2018.

The Institute is having MOUs with giants in various fields such as Prime Meiden Ltd, HUAWEI, NSIC, APSSDC, NELCAST, ORACLE and DLINK. Relations are further strengthened with DASSUALT SYSTEMES and AVEVA centre of excellences.

**EDC:** The Entrepreneur Development Cell ( EDC ) is taking care in promoting the Entrepreneurship culture in students by conducting the programs such as Entrepreneurship Awareness Camp, workshops on entrepreneurship Need and Opportunities, Entrepreneurial Challenges in Setting Social business, Orientation Program, Motivational speaks from entrepreneurs etc.

**R&D :** The Research and Development cell is established for promoting the faculty to carry Innovative research projects. Many of the faculty are applying for/ working on funded projects. Further college administration is also providing facility and financial support for select innovative projects proposed by faculty and students. The students are also encouraged to conduct project model exhibition workshops and symposiums to present their innovative thoughts.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

### **3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year**

**10**

File Description	Documents
Report of the events	<b>No File Uploaded</b>
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### **3.4 - Research Publications and Awards**

#### **3.4.1 - The Institution ensures**

**A. All of the above**

**implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software**

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year**

**3.4.2.1 - Number of PhD students registered during the year**

**0**

File Description	Documents
URL to the research page on HEI website	<b>Nil</b>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year**

**5**

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### 3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

**2**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

### 3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

#### 3.4.5.1 - Total number of Citations in Scopus during the year

**0**

File Description	Documents
Any additional information	<b>No File Uploaded</b>
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

#### 3.4.6.1 - h-index of Scopus during the year

**3**

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### 3.5 - Consultancy

**3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)**

10

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
List of consultants and revenue generated by them	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year**

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<b>No File Uploaded</b>
List of training programmes, teachers and staff trained for undertaking consultancy	<b>No File Uploaded</b>
List of facilities and staff available for undertaking consultancy	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**3.6 - Extension Activities****3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year**

**Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during this year**

- The Institute hosts two regular NSS units under JNTU A, each accommodating up to 100 volunteers, dedicated to

fostering patriotism, service, and national integrity among students. Through NSS, various social service activities like blood donation camps, AIDS rallies, voters' day campaigns, voter awareness programs, Swachh Bharat initiatives, and village adoption are organized.

- A voluntary organization called Helping Hands, initiated by students, aids needy individuals in neighboring villages.
- The Institute also operates a 2(A) EME Unit NCC with a capacity of 100 cadets, sharing the same commitment to instill patriotism and service.
- Collaborative efforts with students and faculty extend to conducting college-neighborhood-community network programs in nearby villages.
- Furthermore, the Red Cross Society facilitates blood testing and grouping for students at the college and nearby educational institutions.

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>

### 3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

0

File Description	Documents
Number of awards for extension activities in during the year	<b>No File Uploaded</b>
e-copy of the award letters	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

### 3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and

**those organised in collaboration with industry, community and NGOs)****6**

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year****810**

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.7 - Collaboration****3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work****0**

File Description	Documents
Copies of documents highlighting collaboration	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)****4**

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

## 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 equipments, etc.

**NBKIRST encompasses well-organized campus covering 100 acres, providing ample physical infrastructure for teaching and learning activities. Most of the class rooms are well-equipped, well-ventilated, and spacious classrooms equipped with LCD projectors for conducting theory classes. NBKRIST consistently upholds its vision by promoting ICT classrooms that offer multimedia learning, Wi-Fi connectivity, and internet access. In order to encourage active student participation in paper presentations and group discussions, NBKRIST maintains multiple seminar halls available for hosting regional and national seminars. In addition, each department provides separate tutorial rooms for doubt clarification and special remedial classes for weak and needy students. All departmental laboratories are equipped with advanced equipment and facilities, adhering to JNTUA and AICTE, and are used for practical classes, technology learning, and industry-enabled teaching with licensed software and open-source tools. In order to support academic and research advancements, NBKRIST is a smart campus that provides internet connection to every part of the campus, including labs, classrooms, libraries, and faculty offices.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.nbkrist.co.in/Campus_intro.php">https://www.nbkrist.co.in/Campus_intro.php</a>

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

The institution is dedicated to fostering student involvement in extracurricular activities, providing ample resources and support. A sprawling sports complex spanning 14 acres, funded adequately, hosts various sports activities, supervised by the Sports and Cultural Committees. The institution boasts a dedicated Physical Education Department with four full-time qualified directors, offering gymnasium facilities and training to maintain physical fitness. Yoga classes are conducted regularly. Students have excelled in inter-collegiate and zonal sports events, supported by the institution through financial assistance, sports kits, and recognition.

Cultural clubs and events, including music concerts, drama shows, and dance competitions, promote artistic talents. The annual event, ECSTATIC, showcases diverse cultural and extracurricular activities. Facilities for sports include outdoor and indoor games, with the institute providing necessary equipment, refreshments, and incentives for participants. Similarly, for cultural activities, competitions and provisions for participants are organized, with winners honored during the annual gatherings held in a well-equipped open-air auditorium.

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.nbkrst.org/Departments/Sports/about.php#tabFacilities">http://www.nbkrst.org/Departments/Sports/about.php#tabFacilities</a>

#### 4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

52

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

**69.50**

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**4.2 - Library as a Learning Resource**

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

The library is fully automated, employing a computer system to manage all aspects of library operations. This includes a Digital Library with a server offering 7 TB storage capacity. The Online Public Access Catalogue (OPAC) allows students and faculty to search for books by title or author. Barcoding of all books facilitates automated transactions using a Barcode Reader, covering tasks such as issuing, returning, and renewing books. Users can access various features remotely from any computer on campus, access to electronic resources, NPTEL resources, video lectures, archived university exam question papers and lists projects available through the "lib.nbkrust.org" .

**Modules / Features of the software :**

1. Cataloging
2. Barcode enabled Issue return
3. Transactions are automated by using bar code reader.
4. OPAC

**Software developed - 02-02-2010**

**DIGITAL LIBRARY SERVER**

1. Operating System - Ubuntu 14.04.5 LTS (Trusty Tahr)
2. Machine - HP ProLiant ML350
3. Processor: Xeon
4. Storage: RAD Linear Array 3 TB

5. External USB3.07 TB
6. Memory: 8 GB
7. Hosts - 1. NPTEL Videos/Web Resources
8. 2.E-Books
9. 3.University & NBKRIST Autonomous Old Question Papers
10. 4.UG & PG Project Record Data
11. 5.Koha-Experimental Server
12. 6. Media Resources : CD/DVDS (1560)
13. DIGITAL LIBRARY e-Resource Portal - <http://192.168.10.221>

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources**

**A. Any 4 or more of the above**

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)**

**734936**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

**4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)**

**4.2.4.1 - Number of teachers and students using the library per day during the year**

550

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**4.3 - IT Infrastructure**

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

**NBKIRST has centralized computer center and has bandwidth of 1 GBPS IT policy and corresponding institute's IT infrastructure is managed by the Center for IT Services, providing e-resources for administration, research, education, and learning. Systems are linked via LAN to high-speed internet, and communication is via home-made managing system and google e-mail.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

**4.3.2 - Student - Computer ratio**

Number of Students	Number of Computers
<b>3660</b>	<b>857</b>

File Description	Documents
Upload any additional information	<a href="#">View File</a>

**4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus**

**A. 50 Mbps**

File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

**4.3.4 - Institution has facilities for e-content development:** **A. All four of the above facilities available for e-content development Media**  
**Centre Audio-Visual Centre Lecture**  
**Capturing System (LCS)** **Mixing equipments and software for editing**

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>
List of facilities for e-content development (Data Template)	<a href="#">View File</a>

#### 4.4 - Maintenance of Campus Infrastructure

**4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)**

**925.60**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

**NBKIRST maintains a manager office to monitor the construction and maintenance of the buildings, classrooms, and laboratories by a team of experienced engineers and work inspectors. In regular time intervals, maintenance operations are taken up by the team members to provide comfortable and convenient utilization of infrastructure by the stakeholders and to ensure a clean and hygienic ambience in the classroom and inside the**

**campus.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

## **STUDENT SUPPORT AND PROGRESSION**

### **5.1 - Student Support**

#### **5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year**

**2405**

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

#### **5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year**

**100**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

#### **5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities**

**B. Any 3 of the above**

**Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene)**

**Awareness of Trends in Technology**

File Description	Documents
Link to Institutional website	<b>Nil</b>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year**

**200**

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	<b>No File Uploaded</b>

**5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees**

**A. All of the above**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

## 5.2 - Student Progression

### 5.2.1 - Number of outgoing students who got placement during the year

148

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

### 5.2.2 - Number of outgoing students progressing to higher education

14

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### 5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

#### 5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

File Description	Documents
Upload supporting data for students/alumni	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

## 5.3 - Student Participation and Activities

### 5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

0

File Description	Documents
e-copies of award letters and certificates	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

**The institute ensures student representation in various committees and bodies like:**

- **Students Association**

Each department in the school has its own student association overseen by a designated faculty member. Every year, students elect a secretary, joint secretaries, and an executive body to organize both academic and extracurricular events. These events include Dumbchardes, Group Discussion, Power Quiz, Singing, Vocabulary, Aptitude test, Essay writing, Two minutes 2 frame, Mock the press, Reasoning test, Technical Quiz, Mock the press, technical seminars, Visual Quiz, Floor crossing, and more.

- **Professional Bodies :**

Student committees, with faculty guidance, organize activities under various professional bodies, such as ISTE, IETE, IEEE, IEI, CSI, RSI and SAE. Each year, numerous students register for membership in these organizations. Events hosted by these bodies include Just a minute, Technical Quiz, Extempore, Aptitude Test, General Quiz, Mock Press, Floor Crossing, Elocution, A Good Word in English, Dumb Charades, among others, with active participation from their members.

- **Academic & administrative bodies/committees of the institution :**

- **Anti Ragging committee :**
- **Hostel committee**
- **Technoquest committee**
- **Various club secretary like Coding Club, Yoga Club, Painting Club, Cultural Club, Literary Club, Language Club**
- **Grievance & Redressal Committee**
- **Alumni Association**
- **National Service Scheme Unit (NSS)**

- National Cadet Corps (NCC)
- Cultural Committee
- Sports Committee
- Discipline Committee
- ICC

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>

### 5.3.3 - Number of sports and cultural events / competitions organised by the institution

0

File Description	Documents
Report of the event	<b>No File Uploaded</b>
List of sports and cultural events / competitions organised per year	<b>No File Uploaded</b>
Upload any additional information	<b>No File Uploaded</b>

### 5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

**The Alumni Association was formed in the year 1984. Every student becomes a life member of the Association on completion of the course.**

**A General Body meeting will be held annually either on the Campus or at Local Chapters (viz. Hyderabad, Bangalore, Chennai etc.). The USA Alumni will meet regularly at our Texas Local Chapter.**

**NBK RIST alumni are working across the globe and some of them have become successful entrepreneurs. Some of our alumni have acquired their doctoral degrees from reputed universities in India and abroad.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<b>Nil</b>

**5.4.2 - Alumni's financial contribution during the year** **D. 2 Lakhs - 5 Lakhs**

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

NBKIRST has a vision to emerge as a comprehensive Institute that provides quality technical education and research thereby building up a precious human resource for the industry and society. Mission is to provide a learner-centered environment that challenges individuals to actively participate in the education process and to empower the faculty to excel in teaching while engaging in research, creativity and public service. In the pursuit of the vision of the institute, NBKRIST follow and adhere to the following governess:

- Case Study on Curriculum Review Programme
- Feedback from all stakeholders
- Conducting periodical departmental review meetings to assess COs, POs and PEOs, monitor the attainment of targets in terms of COs, POs and PEOs.
- Regular BOS/Academic council/Governing body meetings for approval of the adopted curriculum and getting approval from relevant Statutory Regulatory Authority for novel programmes.
- 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.
- NBKRIST offers committees, complaint boxes, social awareness programs, and regular sports, photography,

music, drama, literature, and painting clubs for anonymous grievance and improvement reporting.

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional Information	<b>Nil</b>

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

**NBKIRST is strongly committed to decentralization in all academic and administrative activities, with various committees responsible for monitoring, planning, and executing the functioning of the college in a smooth manner.**

#### **Case Study : Administrative Decentralization:**

- **Board of Governing body:**
  - Compositions : Chairman, Govt. Nominee, University Nominee, UGC Nominee, Members, Member of Secretary.
  - Responsibilities : Planning and policy development, institutional budget, academic and research growth of the institute and other extension activities.
  - College Administration:
- Administrative composition : Chairman, Correspondent, Director, Heads of the Departments, Faculty, Supporting staff.
- Responsibilities: To deal with college's development plan focuses on academic, administrative, and infrastructural growth, enabling the addition of curricular, co-curricular, extracurricular and research activities. The Director directs departmental heads to prepare the annual budget, with faculty members submitting laboratory requirements and quotations. NBKRIST practices decentralization, providing operational autonomy for procurement, requisition preparation, and supplier payments.

#### **Academic Decentralization:**

- **Composition:**The Academic Council Committee, composed of

- administrative staff and faculty members.
- **Responsibility:** Strive for the holistic development of the college and recommends improvements to student facilities and campus experiences.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional Information	<b>Nil</b>

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

**NBKIRST**, every three academic years, devises strategic plans aimed at realizing its institutional vision. These plans are geared towards providing high-quality education, research opportunities, and career support, benefiting all stakeholders. The institute focuses on several key strategic areas:

1. **Curriculum Development:** NBKRIST designs its curriculum to align with program objectives, ensuring students acquire necessary knowledge and skills. The curriculum covers diverse areas including humanities, basic sciences, engineering, and co-curricular activities.
2. **Teaching and Learning:** The institute employs innovative teaching methods, including ICT-enabled education and learner-centered approaches. It emphasizes practical learning through industrial visits, workshops etc.
3. **Examination and Evaluation:** NBKRIST utilizes a EMS for exam scheduling, conduct, and result processing. The system ensures timely publication of results and provides a platform for grievance redressal and monitoring against malpractice.
4. **Library, ICT, and Infrastructure:** The institute continuously upgrades its ICT infrastructure, providing high-speed internet and department-specific computational facilities..
5. **Research and Development:** NBKRIST promotes research through

departmental monitoring committees and collaborations with local industries. It incentivizes faculty and student involvement in research activities and encourages publication and external project funding.

Overall, NBKRIST's strategic plans aim to enhance educational quality, facilitate research, and foster a conductive learning environment, thereby advancing its institutional vision.

File Description	Documents
Strategic Plan and deployment documents on the website	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>
Upload any additional information	<b>No File Uploaded</b>

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The chairman heads the institution's governing body and executive committee, with the correspondent, secretary, and other members responsible for decision-making. The Director is solely responsible for managing the NBKR Institute of Science and Technology and is authorized to achieve the institution's vision and mission. The Director manages the college's academic and administrative affairs with a team of departmental heads (HODs), deans, an IQAC coordinator, all departmental faculty, the controller of the examination (COE), and the administrative division head. The composition of administration comprises governing bodies, an academic council, an IQAC coordinator, and a student council. Regarding service rules, college procedures, and recruitment and promotion policies, NBKRIST strictly adheres to the recruitment rules and eligibility criteria defined by the University Grant Commission. In addition, college rules and policies are amended from time to time based on the requirements and for the benefit of promotional opportunities for teachers and non-teaching staff.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="https://www.nbkrinst.co.in/orgchart1.php">https://www.nbkrinst.co.in/orgchart1.php</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<b>Nil</b>

**6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination**

**A. All of the above**

File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**6.3 - Faculty Empowerment Strategies**

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

**The management NBKRIST provides independent residential quarters for teaching and non-teaching staff, with employee-provident fund and gratuity schemes. They offer a group insurance scheme, earned leave, and paid vacation. Staff members receive financial assistance for professional bodies, medical and maternity leave, and cash incentives for publishing research works. The campus clinic offers free primary medical services, and health camps are organized for both teaching and non-teaching staff.**

**In case of non-teaching staff, Annual Dearness Allowance revisions, financial assistance for economically backward staff children, medical and maternity leave, free primary medical services, health camps, and assistance to staff families in case of personal loss.**

**The college organizes campus health camps, supports students**

through various initiatives like the Computer Centre, Library, Book Bank, Canteen, Anti-Ragging Cell, In-campus Hostel, Internals Complaints Committee, and updated website. All teaching staff/non-teaching staff/students are provided with a subsidized transport facility from designated pick-up points to and from the college.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

**6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year**

**11**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

**6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year**

**6**

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

**6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)**

**97**

File Description	Documents
Summary of the IQAC report	<b>No File Uploaded</b>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

#### **6.4 - Financial Management and Resource Mobilization**

##### **6.4.1 - Institution conducts internal and external financial audits regularly**

**Every financial year, budget proposals are made on various heads, such as laboratory equipment, library expenses, salary payments, and building infrastructure. These proposals are verified by the finance committee and submitted to the governing body for approval. An internal audit committee, consisting of the Director, Auditor, and senior faculty member, reviews and suggests changes to these proposals. The committee also examines budget proposals, receipts, bills, vouchers, and supporting documents. An external audit team, led by a chartered accountant, visits the institute regularly and addresses any objections raised during the audit. The accounts audited are submitted to the governing body for approval.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

##### **6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)**

**0**

File Description	Documents
Annual statements of accounts	<b>No File Uploaded</b>
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

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

**NBKIRST primary funding source is the annual fee received from students, which is collected in accordance with state fee regulations. The fee is converted into fixed deposits and withdrawn regularly to cover expenses. Funds are also raised through supported projects, consultancy, and philanthropic contributions. Research grants are used to cover equipment, travel expenses to attend scientific conferences, and stipend expenses.**

The budgetary process commences with department/section heads submitting budget proposals, covering various aspects like infrastructure development, educational resources, and cultural activities, to the finance committee. Monthly budgetary needs are also outlined in these proposals. The finance committee reviews these proposals, prepares minutes of its meetings, and convenes a gathering of department/section heads to suggest adjustments for balanced finances. The finalized budget estimate is then presented to the governing body for approval. Upon approval, the budget allocations are communicated to departments and sections, with the institute ensuring continuous monitoring of budget utilization.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<b>Nil</b>

#### 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and

post-accreditation quality initiatives (Second and subsequent cycles)

The emphasis on ICT in teaching and learning is being boosted, with faculty encouraged to use ICT tools, internet reference facilities, and various training courses arranged. IQAC submits AQARs and Best Practices to NAAC and UGC, and collects student feedback on teachers for improvement. It plays a crucial role in improving teaching, research, and extension, and encourages flexibility in administrative procedures for research projects.

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

The IQAC reviews the teaching-learning process, structures, and outcomes, schedules the academic calendar, and records lecture details. It organizes regular audits, verifies internal test analysis, arranges special classes for weak students, and recommends new processes for improvement. The institute analyzes student performance after semester results, seeks feedback from stakeholders, and encourages faculty participation in online certification courses. It also organizes faculty development programs and skill training programs annually. IQAC seeks to enhance the institution's reputation by achieving accreditation and high rankings, attracting top-tier faculty and students. IQAC involves verifying internal test analysis, question papers, arranging special classes for weak students, identifying new processes for quality improvement, and analyzing deviations from benchmarks. Feedback from the stakeholders (students, alumni, industry experts, research organizations, and parents) is taken periodically.

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the

**A. Any 4 or all of the above**

**IQAC Feedback collected, analysed and used for improvement of the institution**  
**Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)**

File Description	Documents
Paste the web link of annual reports of the Institution	<b>Nil</b>
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

**N.B.K.R. Institute of Science & Technology, Vidyanagar strives in its spirit of academic and social endeavours in terms of women empowerment, women's rights and gender equity. Our Institute aims to empower girl students and women faculty on women issues and to make the campus a safe and protective place for girls and women.**

**Measures initiated by the Institution for the promotion of gender equity during the year :**

- Facilities are provided to the girl students & female faculty, taking care of their gender sensitivity issues.
- Our Institute organizes several programs and events to promote gender sensitisation among the students, teaching and non-teaching staff community within the campus.
- The facilities provided for women in terms of Safety and security, Counselling, Common Rooms etc.
- The institute has a policy of appreciating faculty without gender bias. Women faculty are nominated, based on their ability, as conveners of various committees and

discharging their duties efficiently.

- A separate Online Grievance redressal cell for women, Women Empowerment Cell, Internal Complaints Committee are formed.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<b>Nil</b>

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment**

**B. Any 3 of the above**

File Description	Documents
Geotagged Photographs	<b>No File Uploaded</b>
Any other relevant information	<a href="#">View File</a>

**7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)**

**Solid waste management :**

The campus manages solid waste systematically through collection, segregation, transportation, and disposal. A twin bin system separates biodegradable and recyclable waste, with clear labelling. Biodegradable waste, like kitchen waste and plant products, undergoes composting for use as manure in gardening. Non-biodegradable items such as plastic bottles, glass, and aluminium cans are separated and transported to local dump yards. Hazardous waste from laboratories is disposed of safely by trained workers. Efforts to reduce waste include banning plastic cups, plates, and cutlery.

**Liquid waste management :**

Proper management of liquid waste is crucial for maintaining hygiene in educational institutions. Waste from lavatories and

bathrooms is collected via pipes and sent to a septic tank.

**E-Waste management :**

- Due to advancement in the technology various electronic equipments/ products/gadgets tend to become obsolete and hence there is a need of E-waste management.
- The collected material is disposed for recycling through authorized vendors.
- E-Waste is collected regularly and stored in well protected E-waste store room.
- Old operational equipments such are distributed to poor students.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<b>No File Uploaded</b>
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**

**B. Any 3 of the above**

File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

**7.1.5 - Green campus initiatives include**

**7.1.5.1 - The institutional initiatives for greening the campus are as follows:**

**A. Any 4 or All of the above**

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles

- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<b>No File Uploaded</b>
Any other relevant documents	<b>No File Uploaded</b>

#### **7.1.6 - Quality audits on environment and energy undertaken by the institution**

**7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:**

- 1. Green audit**
- 2. Energy audit**
- 3. Environment audit**
- 4. Clean and green campus recognitions/awards**
- 5. Beyond the campus environmental promotional activities**

**D. Any 1 of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<b>No File Uploaded</b>
Certification by the auditing agency	<b>No File Uploaded</b>
Certificates of the awards received	<b>No File Uploaded</b>
Any other relevant information	<b>No File Uploaded</b>

**7.1.7 - The Institution has a disabled-friendly and barrier-free environment:**  
**Ramps/lifts for easy access to classrooms and centres** **Disabled-friendly washrooms**  
**Signage including tactile path lights, display boards and signposts** **Assistive technology**

**A. Any 4 or all of the above**

**and facilities for persons with disabilities:  
accessible website, screen-reading software,  
mechanized equipment, etc. Provision for  
enquiry and information: Human  
assistance, reader, scribe, soft copies of  
reading materials, screen reading, etc.**

File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
Policy documents and brochures on the support to be provided	<b>No File Uploaded</b>
Details of the software procured for providing assistance	<b>No File Uploaded</b>
Any other relevant information	<a href="#">View File</a>

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

**N.B.K.R. Institute of Science & Technology, Vidyanagar, is actively involved in various activities to build and promote an environment for ethical, cultural, and spiritual values among the students and faculty. This includes celebrating significant days honoring eminent personalities and national festivals, organizing NSS activities, and promoting a sense of tolerance and respect for diversity. As part of the curriculum, all B.Tech. students are required to study the Constitution of India and professional ethics, highlighting their importance.**

The College and its teachers and staff jointly celebrate the cultural and regional festivals, like New Year's day, teacher's day, orientation and farewell program, Induction program, plantation, women's day, yoga day etc. 5 villages were adopted under UBA. Students and faculty distribute needy things to the poor people hearby village through "Helping Hands ".

The institute celebrates important national festivals like Republic Day and Independence Day with enthusiastic participation from staff and students, featuring inspiring speeches. The college celebrates cultural and regional festivals like youth festival.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<b>No File Uploaded</b>

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

**NBKIRST prioritizes imparting constitutional obligations, values, rights, duties, and responsibilities in staff and students. They prescribe the Constitution of India as an audit course and conduct awareness campaigns, orientation programs, and seminars to sensitize future leaders to human values and constitutional obligations.**

**Independence Day is celebrated annually to emphasize the struggle for freedom and the Indian Constitution's importance, while Constitution Day is celebrated on November 26th in various college departments.**

**NBKIRST celebrates national festivals by hoisting the flag and inviting influential figures to inspire students and staff. It establishes core values policies, prepares a code of conduct for students and staff, and encourages participation in sports, games, NCC, and NSS at the national level to strengthen nationwide bonds and relations. National leaders' quotes are displayed across all departments to honor their noble ideals and appreciate their contributions to society.**

**Due to government restrictions during the pandemic, numerous programs were halted.**

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<b>No File Uploaded</b>
Any other relevant information	<b>No File Uploaded</b>

**7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this**

**B. Any 3 of the above**

**regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized**

File Description	Documents
Code of Ethics - policy document	<b>No File Uploaded</b>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	<b>No File Uploaded</b>
Any other relevant information	<b>No File Uploaded</b>

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

**Institute celebrates national festivals like Independence day, Republic day, NSS Day, Yoga Day, NCC day, etc to instill the patriotism and spirit of national unity among it's students and also celebrates birth and death anniversaries of great Indian personalities like; Engineers day, Sir CV Raman's birthday, Mathematics day, Gandhi Jayanthi, Sradar Vallbhay Patel Jayanthi involving all the students and teaching community.**

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<b>No File Uploaded</b>
Geotagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

## 7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Best Patrice - 1

**1. Title: Self-esteem & Self-Discipline**

**2. Objectives:** Sports significantly shape personalities and maintain good health. The college provides financial and physical support to sports boys and girls, fostering a sense of pride in their achievements. The main mission of this practice is to nurture students' innate talents and hidden potential in sports, with the following objectives:

- To motivate and empower students to participate in physical activity and maintain a healthy lifestyle.
- To instill self-assurance, collaboration, and perseverance in individuals, preparing them to tackle life's challenges.
- To enhance social interaction, boost self-esteem, and foster a positive outlook, while providing players with necessary physical and emotional support.
- To produce state/national/international level players
- 1. Title: The implementation of outcome-based pedagogy
- 2. Objectives: An Outcome-Based Pedagogy aims to enhance students' job skills and employability through structured tasks such as certificate courses, seminars, internship programs, fieldwork, student project work, and workshops. This best practice focuses on students' choice of subjects, enhancing their knowledge and employability for their future careers. The activities aim to provide practice-oriented knowledge, skill training, thorough subject knowledge, software and hardware, technical skills, communication, and soft skills for job competition success.

File Description	Documents
Best practices in the Institutional website	Nil
Any other relevant information	Nil

**7.3 - Institutional Distinctiveness**

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

To achieve academic success, institutions must assess their strengths and weaknesses in relation to long-term goals, and provide appropriate curricula, academic support, and services to help achieve these goals. NBKRIST, like many diversified institutions, aims to create an ecosystem that supports students from diverse backgrounds, aiming for a wide range of outcomes.

NBKRIST aims to provide quality education through moral, ethical, and social responsibilities, motivate students to develop creative potential and critical thinking, equip them with skills for global adaptation, and provide access to multiple career opportunities.

In the context of research development, NBKRIST has given much significance to the establishment of research project labs with advanced equipment and software, enhancing research activities. High-bandwidth internet connectivity and Wi-Fi facilities are available for students and faculty. The institution encourages students and scholars to visit specialized laboratories at external industries and institutions.

In addition to the regular academic and research activities, NBKRIST focuses on students' personality development in relation to societal needs, encouraging them to participate in activities such as green environment initiatives, visiting orphanages, and conducting awareness programs. Each department within the institution has a Department Social Responsibility team responsible for this, ensuring students' well-being and contributing to society's development.

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

By considering dynamically changing local and regional needs, NBKRIST upgrades the curricula of all courses through periodic revisions in accordance with the guidelines of JNTUA, AICTE, and UGC and thus enhances the technical skills of the students to meet the requirements of global and national developments. NBKRIST implements the "outcome-based education" methodology in order to develop effective curriculum for each program with a strong emphasis on the Pos, PSOs and specific attention has given to COs by the considering the regional aspects. As part of curriculum modification, NBKRIST considers suggestions from academia, industry sectors, and all stakeholders of the institute, as well as approval from the institute's academic council, to discuss course contents, COs, and their appropriateness for achieving the POs, PSOs, and PEOs.

File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	<a href="https://www.nbkrist.co.in/Syllabus/R20(a)_CSE-16-05-24.pdf">https://www.nbkrist.co.in/Syllabus/R20(a)_CSE-16-05-24.pdf</a>

#### 1.1.2 - Number of Programmes where syllabus revision was carried out during the year

10

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<b>No File Uploaded</b>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year**

**109**

File Description	Documents
Curriculum / Syllabus of such courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<a href="#">View File</a>
MoUs with relevant organizations for these courses, if any	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**1.2 - Academic Flexibility**

**1.2.1 - Number of new courses introduced across all programmes offered during the year**

**46**

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

**1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System**

**7**

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

### 1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

NBKR Institute of Science & Technology aims to promote practical sense of human values in education for fruitful contribution to the societal development. In accordance with this, NBKRIST strives to foster moral and human values in students' minds and thus mold them into responsible individuals who can take on responsibility in any circumstance or stage for the benefit of their living communities, thus contributing to the construction of a strong nation. In an effort to accomplish the institute's objective, NBKRIST has decided to incorporate the following courses into the curriculum to address cross-cutting issues related to gender, human values, professional ethics, the environment, and sustainability.

- Non-Conventional Energy Resources, Green Chemistry and Catalysis for Sustainable Environment, Design of Photovoltaic Systems, Wind Electrical Systems
- Introduction to Intellectual Property Rights, Indian Constitution, Essence of Indian Traditional Knowledge, Business Ethics and Corporate Governance.
- Environment and Sustainability: Disaster Management, Environmental Science, Water Supply and Waste Water Engineering, Environmental Engineering.
- Soft Skills, Human Resource Development.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### 1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

11

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**1.3.3 - Number of students enrolled in the courses under 1.3.2 above****1609**

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.3.4 - Number of students undertaking field work/projects/ internships / student projects****580**

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**1.4 - Feedback System**

<b>1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni</b>	<b>A. All 4 of the above</b>

File Description	Documents
Provide the URL for stakeholders' feedback report	<b>Nil</b>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<b>No File Uploaded</b>
Any additional information	<a href="#">View File</a>

<b>1.4.2 - The feedback system of the Institution comprises the following</b>	<b>A. Feedback collected, analysed and action taken made available on the website</b>
---	---

File Description	Documents
Provide URL for stakeholders' feedback report	<b>Nil</b>
Any additional information	<a href="#">View File</a>

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Enrolment of Students

##### 2.1.1.1 - Number of students admitted (year-wise) during the year

**816**

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

##### 2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

**607**

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## 2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

**NBKIRST follows a specific methodology to assess students' learning levels through MID-II and MID-II exams. After completion of the MID-I exam, each faculty member identifies the slow learners from their sections and conducts remedial classes in hybrid mode to motivate them to secure more than 60% marks and eventually prepare their mind set to clear the MID-II and end-of-semester exams with fruitful results. Students with 80 % or more marks are encouraged to learn advanced topics through online certification courses and learn foreign languages. They are motivated to research advanced topics through technical seminars, events, and hackathons. Students participate in national and international competitions, internships, paper presentations, and real-time problem-solving.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

## 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
20/01/2021	3292	164

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## 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:

The Innovation and Incubation Center (IIC) of NBKRIST encourages all faculty members to adopt lecture methods, interactive methods, project-based learning, computer-assisted learning, and experiential learning. These methods are effective through illustrations, special lectures, PowerPoint presentations, and interactive activities like group discussions. In NBKRIST, all departments practice student-centric methods, including experiential learning, participatory learning, problem-solving, and class presentations, to enhance learning activities, develop technical skills, encourage creativity, and promote cognitive development. All departments foster student development through innovative programs that encourage creativity, problem-solving, and participative learning. They implement student-centric methods to enhance lifelong learning skills. The NBKRIST introduces innovative student-centric teaching methods like hackathons, workshops, seminars, virtual labs, roleplay, video demonstrations, and more to encourage active, problem-solving, and experiential learning in various fields.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Information and communication technology (ICT) tools transform teaching and learning methodologies from teacher-centric to student-centric, resulting in increased learning gains and opportunities. ICT tools are cost-efficient, eliminating paper use, saving time during lectures, and facilitating dynamic teaching methods. In addition, ICT tools are powerful tools for educational change and reform, raising student interest and connecting learning to real-life situations, resulting in improved performance and enjoyment of learning. NBKRIST encourages the faculty members to make use of ICT-enabled tools, including online resources, in classrooms and labs to enhance teaching and learning processes, incorporating advanced knowledge and practical

skills from teachers and software. NBKRIST adheres to promoting green practices by utilizing ICT resources, a home-made management system, and Google cloud-based storage facilities. NBKRIST continuously encourages faculty to practice various teaching methods, including traditional teacher-centered lectures and interactive, collaborative methods like Microsoft Teams and Google Classroom. Faculty also utilize IT-enabled learning tools like PPT, video clippings, animations, and online resources, along with providing reading materials and lab manuals via email. During the pandemic period, NBKRIST arranged projectors in classrooms and labs to integrate new pedagogies, while email, group mail, and social networking tools facilitated instant communication and information dissemination.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<b>Nil</b>
Upload any additional information	<a href="#">View File</a>

### 2.3.3 - Ratio of students to mentor for academic and other related issues

#### 2.3.3.1 - Number of mentors

140

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

### 2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

The director of NBKRIST prepares the academic calendar by following the suggestions from all heads of departments, IQAC and academic council. The aim of the academic calendar to provide detailed instructions, mid-term and end-semester exam dates, enabling students and faculty to plan semester-specific activities in advance. In the framed academic

calendar, each academic year comprises two semesters, each lasting \*\* weeks, each accommodating \*\* working days. At the beginning of each semester, academic calendars for all programs are made available on the institute website, with well-prepared teaching plans based on the calendar, including lesson plans, handouts, lecture notes, quizzes, and seminar topics. Academic Calander instructs the placement cell of NBKRIST to schedule training programs for the students during regular class work in an effective manner and to equip the students with the necessary soft skills to get recruited in various MNCs.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

### 2.4.1 - Number of full-time teachers against sanctioned posts during the year

164

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	<a href="#">No File Uploaded</a>

### 2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

51

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	<a href="#">View File</a>
Any additional information	<a href="#">No File Uploaded</a>

**2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)**

1377

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**2.5 - Evaluation Process and Reforms**

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

45

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year**

2

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

**Processes integrating IT**

1. Preparation of staff Time table & Class Time table
2. QP pattern Template made available in intranet.
3. Final Attendance shortage list generated from system
4. Students, parents & staff to view Test Time table, exam Time table, Test mark
5. Result analysis reports like Course-wise pass percentage before moderation, Fail list before moderation, and Moderation list are generated for result passing board.
6. The reports like award list, Individual student result, Fail list after moderation and Pass percentage are sent to Departments.

#### Continuous internal assessment system

1. Mid-semester review of student attendance and marks
2. Attendance entry by course handling faculty for every hour
3. Faculty assessment by student
4. Student attendance monitoring

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

#### 2.6 - Student Performance and Learning Outcomes

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

Yes. All the students are educated regarding the program outcomes. Each Department prepares its own academic plan by incorporating the program inputs and outcomes. Same is communicated to the students and staff. Outcome Based Education (OBE) is implemented in this Institute since 2013 as OBE give emphasis on what is expected from the student when they finish their course. In line with OBE Program Specific Outcomes (PSOs), Program Outcomes (POs) and Course Outcomes (COs) are evaluated. OBE helps the student to

achieve the outcomes of significance before leaving the Institute. Every department establishes the Program Specific Outcomes (PSOs), Program Outcomes (POs) in line with the Graduate Attributes mandated by NBA and PEOs of the programme by considering the inputs from faculty and alumni in cognizance of latest technology demand, job prospects and societal requirements. The COs of all courses are communicated to the students through Curriculum Book and through Institute website. The POs/PSOs/Program Outcomes (POs) are displayed in the following locations: 1. Institute Website ([www.nbkrist.org](http://www.nbkrist.org)) 2. Department Notice Boards 3. Department Library 4. Academic Regulations and Curriculum Book Disseminated to: 1. Students / Parents in student orientation programme.

**2. Alumni / Employer / Academicians visit the department on various occasions.**

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Link for additional Information	<b>Nil</b>

**2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution**

- The curriculum consists of various courses and each course contributes the program outcomes. Each course has few course outcomes depending the course content using Blooms Taxonomy, each course outcome correlated with the certain program outcome.
- The course outcomes of each course are assessed qualitatively and quantitatively for each student.
- Qualitative methods indirectly help the students to improve the quantitative attainment levels of each course.
- The quantitative attainment level of each student on each course outcome is directly measured using semester internal examinations and end examinations.
- The surveys are indirectly used to evaluate the

attainment level of course outcome/program outcomes.

- The following processes & tools are used for the attainment of course outcomes.

1. Mid Examinations:

2. Semester End Examination:

3. Assignment:

4. Practical/Laboratory works/Project

**Attainment of Program Outcomes and Program Specific Outcomes:**

**List of assessment tools & processes:**

- Direct assessment
- Indirect assessment

**The quality/relevance of assessment tools/processes used:**

- The attainment of the PO & PSO is computed as a weighted average of attainment of the COs that are mapped to the given PO&PSO. The overall PO & PSO attainments are calculated by considering direct attainment and indirect attainment through surveys.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://103.159.250.196/assessment/EBCOA_ttainment/">http://103.159.250.196/assessment/EBCOA_ttainment/</a>

### 2.6.3 - Pass Percentage of students

#### 2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

587

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Paste link for the annual report	<b>Nil</b>

## 2.7 - Student Satisfaction Survey

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

<https://www.nbkrist.co.in/Iqac/SSC2020-2021.pdf>

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

**NBKIRST is continuously striving to improve the research facilities and encourage the faculty to promote research in their 'research area of expertise'.**

1.

**Radial Feeder Protection Simulation Unit**

**Conducting simulation experiments on time and current grading. Over current protection, line faults**

2.

**MATLAB**

**Conducting simulation lab experiments, performing optimization methods, implementing projects in SIMULINK**

3.

**Electrical Testing Equipment**

**Measuring and testing in various systems and materials**

4.

**ETAP**

Analyze and Perform the projects in power system area

5.

DSP based BLDC motor

BLDC motor with hall sensor

Doping projects along with regular experiments

6.

**Thermal Engineering Stream**

- Computerized Research engine Test Rig
- AVL make Exhaust gas analyzer (5 Gas)
- AVL Smoke meter
- Provide Engine operational training for research scholars and students with engine

7.

**Production Engineering Stream**

- Computerized Aluminum alloy stir casting machine
- Electronica make 50amp ZNC EDM
- 50 Ton Hydraulic press.
- TIG welding machine
- 300X300x300mm FDM machine- 3D printer

8.

**Robotics Research and training centre**

- ABB make IRB 1600 robot industrial robot - 1.45m each
- Robot studio simulation software
- Integrated fusion deposition modelling setup for industrial robot
- Mobile robot research platforms using Atmega 2560 - firebird v5 and spark V5 kits

9.

**CAD/CAM/CAE**

- Dassault Systemes (Centre of Excellence) - CATIA, ENOVIA, ABACUS, DELMIA

10.

**AVEVA COE**

- AVEVA plant Design and Manufacturing System software

11.

**Virtual Instrumentation Laboratory**

- NI Labview software
- My Rio with total mechatronic kit
- Matlab software

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	Nil
Any additional information	<a href="#">View File</a>

**3.1.2 - The institution provides seed money to its teachers for research****3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)**

0

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<b>No File Uploaded</b>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<b>No File Uploaded</b>
List of teachers receiving grant and details of grant received	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### **3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year**

**1**

File Description	Documents
e-copies of the award letters of the teachers	<a href="#">View File</a>
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

## **3.2 - Resource Mobilization for Research**

### **3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)**

**2**

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<a href="#">View File</a>
List of projects and grant details	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.2.2 - Number of teachers having research projects during the year****2**

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional Information	<b>Nil</b>
List of research projects during the year	<a href="#">View File</a>

**3.2.3 - Number of teachers recognised as research guides****9**

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

**3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year****2**

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	<a href="https://portal.aicte-india.org/">https://portal.aicte-india.org/</a>
Any additional information	<b>No File Uploaded</b>

**3.3 - Innovation Ecosystem**

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

**NBKIRST has established 'Innovation & Incubation' Center to develop research culture and create awareness on entrepreneurship for the students. The Institute has**

established Institution Innovation council (IIC) in collaboration with MHRD Innovation council (MIC) in the year 2018.

The Institute is having MOUs with giants in various fields such as Prime Meiden Ltd, HUAWEI, NSIC, APSSDC, NELCAST, ORACLE and DLINK. Relations are further strengthened with DASSUALT SYSTEMES and AVEVA centre of excellences.

**EDC:** The Entrepreneur Development Cell ( EDC ) is taking care in promoting the Entrepreneurship culture in students by conducting the programs such as Entrepreneurship Awareness Camp, workshops on entrepreneurship Need and Opportunities, Entrepreneurial Challenges in Setting Social business, Orientation Program, Motivational speaks from entrepreneurs etc.

**R&D :** The Research and Development cell is established for promoting the faculty to carry Innovative research projects. Many of the faculty are applying for/ working on funded projects. Further college administration is also providing facility and financial support for select innovative projects proposed by faculty and students. The students are also encouraged to conduct project model exhibition workshops and symposiums to present their innovative thoughts.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

**3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year**

**10**

File Description	Documents
Report of the events	<b>No File Uploaded</b>
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.4 - Research Publications and Awards**

**3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software**

**A. All of the above**

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year**

**3.4.2.1 - Number of PhD students registered during the year**

**0**

File Description	Documents
URL to the research page on HEI website	<b>Nil</b>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year**

**5**

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### **3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year**

**2**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

### **3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed**

#### **3.4.5.1 - Total number of Citations in Scopus during the year**

**0**

File Description	Documents
Any additional information	<b>No File Uploaded</b>
Bibliometrics of the publications during the year	<a href="#">View File</a>

### **3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University**

#### **3.4.6.1 - h-index of Scopus during the year**

**3**

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### **3.5 - Consultancy**

**3.5.1 - Revenue generated from consultancy and corporate training during the year  
(INR in lakhs)**

10

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
List of consultants and revenue generated by them	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year**

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<b>No File Uploaded</b>
List of training programmes, teachers and staff trained for undertaking consultancy	<b>No File Uploaded</b>
List of facilities and staff available for undertaking consultancy	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**3.6 - Extension Activities**

**3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year**

**Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during this year**

- The Institute hosts two regular NSS units under JNTU A,

each accommodating up to 100 volunteers, dedicated to fostering patriotism, service, and national integrity among students. Through NSS, various social service activities like blood donation camps, AIDS rallies, voters' day campaigns, voter awareness programs, Swachh Bharat initiatives, and village adoption are organized.

- A voluntary organization called Helping Hands, initiated by students, aids needy individuals in neighboring villages.
- The Institute also operates a 2(A) EME Unit NCC with a capacity of 100 cadets, sharing the same commitment to instill patriotism and service.
- Collaborative efforts with students and faculty extend to conducting college-neighborhood-community network programs in nearby villages.
- Furthermore, the Red Cross Society facilitates blood testing and grouping for students at the college and nearby educational institutions.

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>

### **3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year**

<b>0</b>
----------

File Description	Documents
Number of awards for extension activities in during the year	<b>No File Uploaded</b>
e-copy of the award letters	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

### **3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-**

**initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)**

**6**

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year**

**810**

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.7 - Collaboration**

**3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work**

**0**

File Description	Documents
Copies of documents highlighting collaboration	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)**

**4**

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

## **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 equipments, etc.

**NBKIRST** encompasses well-organized campus covering 100 acres, providing ample physical infrastructure for teaching and learning activities. Most of the class rooms are well-equipped, well-ventilated, and spacious classrooms equipped with LCD projectors for conducting theory classes. NBKIRST consistently upholds its vision by promoting ICT classrooms that offer multimedia learning, Wi-Fi connectivity, and internet access. In order to encourage active student participation in paper presentations and group discussions, NBKIRST maintains multiple seminar halls available for hosting regional and national seminars. In addition, each department provides separate tutorial rooms for doubt clarification and special remedial classes for weak and needy students. All departmental laboratories are equipped with advanced equipment and facilities, adhering to JNTUA and AICTE, and are used for practical classes, technology learning, and industry-enabled teaching with licensed software and open-source tools. In order to support academic and research advancements, NBKIRST is a smart campus that provides internet connection to every part of the campus, including labs, classrooms, libraries, and faculty offices.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.nbkrust.co.in/Campus_intro.php">https://www.nbkrust.co.in/Campus_intro.php</a>

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

**The institution is dedicated to fostering student involvement in extracurricular activities, providing ample resources and support. A sprawling sports complex spanning 14 acres, funded adequately, hosts various sports activities, supervised by the Sports and Cultural Committees. The institution boasts a dedicated Physical Education Department with four full-time qualified directors, offering gymnasium facilities and training to maintain physical fitness. Yoga classes are conducted regularly. Students have excelled in inter-collegiate and zonal sports events, supported by the institution through financial assistance, sports kits, and recognition.**

**Cultural clubs and events, including music concerts, drama shows, and dance competitions, promote artistic talents. The annual event, ECSTATIC, showcases diverse cultural and extracurricular activities. Facilities for sports include outdoor and indoor games, with the institute providing necessary equipment, refreshments, and incentives for participants. Similarly, for cultural activities, competitions and provisions for participants are organized, with winners honored during the annual gatherings held in a well-equipped open-air auditorium.**

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.nbkrust.org/Departments/Sports/about.php#tabFacilities">http://www.nbkrust.org/Departments/Sports/about.php#tabFacilities</a>

**4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities**

52

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

69.50

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

#### 4.2 - Library as a Learning Resource

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

The library is fully automated, employing a computer system to manage all aspects of library operations. This includes a Digital Library with a server offering 7 TB storage capacity. The Online Public Access Catalogue (OPAC) allows students and faculty to search for books by title or author. Barcoding of all books facilitates automated transactions using a Barcode Reader, covering tasks such as issuing, returning, and renewing books. Users can access various features remotely from any computer on campus, access to electronic resources, NPTEL resources, video lectures, archived university exam question papers and lists projects available through the "lib.nbkrst.org" .

##### Modules / Features of the software :

1. Cataloging
2. Barcode enabled Issue return

3. Transactions are automated by using bar code reader.
4. OPAC

Software developed - 02-02-2010

#### DIGITAL LIBRARY SERVER

1. Operating System - Ubuntu 14.04.5 LTS (Trusty Tahr)
2. Machine - HP ProLiant ML350
3. Processor: Xeon
4. Storage: RAD Linear Array 3 TB
5. External USB 3.07 TB
6. Memory: 8 GB
7. Hosts - 1. NPTEL Videos/Web Resources
8. 2.E-Books
9. 3. University & NBKRIST Autonomous Old Question Papers
10. 4. UG & PG Project Record Data
11. 5. Koha-Experimental Server
12. 6. Media Resources : CD/DVDS (1560)
13. DIGITAL LIBRARY e-Resource Portal -  
<http://192.168.10.221>

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

<b>4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources</b>	<b>A. Any 4 or more of the above</b>
---	--------------------------------------

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

#### 4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

734936

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

#### 4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

##### 4.2.4.1 - Number of teachers and students using the library per day during the year

550

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

#### 4.3 - IT Infrastructure

##### 4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

**NBKRIST has centralized computer center and has bandwidth of 1 GBPS IT policy and corresponding institute's IT infrastructure is managed by the Center for IT Services, providing e-resources for administration, research, education, and learning. Systems are linked via LAN to high-speed internet, and communication is via home-made managing system and google e-mail.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

**4.3.2 - Student - Computer ratio**

Number of Students	Number of Computers
3660	857

File Description	Documents
Upload any additional information	<a href="#">View File</a>

<b>4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus</b>	<b>A. ?50 Mbps</b>
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File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

<b>4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing</b>	<b>A. All four of the above</b>
--	---------------------------------

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>
List of facilities for e-content development (Data Template)	<a href="#">View File</a>

**4.4 - Maintenance of Campus Infrastructure****4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)****925.60**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

**NBKIRST maintains a manager office to monitor the construction and maintenance of the buildings, classrooms, and laboratories by a team of experienced engineers and work inspectors. In regular time intervals, maintenance operations are taken up by the team members to provide comfortable and convenient utilization of infrastructure by the stakeholders and to ensure a clean and hygienic ambience in the classroom and inside the campus.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<b>Nil</b>

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

**2405**

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

#### 5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

**100**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

<b>5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities</b> <b>Soft Skills</b> <b>Language and Communication Skills</b> <b>Life Skills (Yoga, Physical fitness, Health and Hygiene)</b> <b>Awareness of Trends in Technology</b>	<b>B. Any 3 of the above</b>
--	------------------------------

File Description	Documents
Link to Institutional website	<b>Nil</b>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

<b>5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year</b>
<b>200</b>

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	<b>No File Uploaded</b>

<b>5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students'</b>	<b>A. All of the above</b>
--	----------------------------

## **grievances Timely redressal of grievances through appropriate committees**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

## **5.2 - Student Progression**

### **5.2.1 - Number of outgoing students who got placement during the year**

**148**

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

### **5.2.2 - Number of outgoing students progressing to higher education**

**14**

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### **5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year**

#### **5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year**

File Description	Documents
Upload supporting data for students/alumni	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

### 5.3 - Student Participation and Activities

**5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year**

**0**

File Description	Documents
e-copies of award letters and certificates	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

**5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution**

**The institute ensures student representation in various committees and bodies like:**

- Students Association**

Each department in the school has its own student association overseen by a designated faculty member. Every year, students elect a secretary, joint secretaries, and an executive body to organize both academic and extracurricular events. These events include Dumbchardes, Group Discussion, Power Quiz, Singing, Vocabulary, Aptitude test, Essay writing, Two minutes 2 frame, Mock the press, Reasoning test, Technical Quiz, Mock the press, technical seminars, Visual Quiz, Floor crossing, and more.

- Professional Bodies :**

Student committees, with faculty guidance, organize activities under various professional bodies, such as ISTE, IETE, IEEE, IEI, CSI, RSI and SAE. Each year, numerous students register for membership in these organizations. Events hosted by these bodies include Just a minute,

**Technical Quiz, Extempore, Aptitude Test, General Quiz, Mock Press, Floor Crossing, Elocution, A Good Word in English, Dumb Charades, among others, with active participation from their members.**

- Academic & administrative bodies/committees of the institution :

  - Anti Ragging committee :
  - Hostel committee
  - Technoquest committee
  - Various club secretary like Coding Club, Yoga Club, Painting Club, Cultural Club, Literary Club, Language Club
  - Grievance & Redressal Committee
  - Alumni Association
  - National Service Scheme Unit (NSS)
  - National Cadet Corps (NCC)
  - Cultural Committee
  - Sports Committee
  - Discipline Committee
  - ICC

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>

### **5.3.3 - Number of sports and cultural events / competitions organised by the institution**

<b>0</b>	
File Description	Documents
Report of the event	<b>No File Uploaded</b>
List of sports and cultural events / competitions organised per year	<b>No File Uploaded</b>
Upload any additional information	<b>No File Uploaded</b>

### **5.4 - Alumni Engagement**

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The Alumni Association was formed in the year 1984. Every student becomes a life member of the Association on completion of the course.

A General Body meeting will be held annually either on the Campus or at Local Chapters (viz. Hyderabad, Bangalore, Chennai etc.). The USA Alumni will meet regularly at our Texas Local Chapter.

NBKRI ST alumni are working across the globe and some of them have become successful entrepreneurs. Some of our alumni have acquired their doctoral degrees from reputed universities in India and abroad.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

**5.4.2 - Alumni's financial contribution during the year** **D. 2 Lakhs - 5 Lakhs**

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

NBKRI ST has a vision to emerge as a comprehensive Institute that provides quality technical education and research thereby building up a precious human resource for the industry and society. Mission is to provide a learner-centered environment that challenges individuals to actively participate in the education process and to empower the faculty to excel in teaching while engaging in research, creativity and public service. In the pursuit of the vision of the institute,

**NBKIRST follow and adhere to the following governess:**

- Case Study on Curriculum Review Programme
- Feedback from all stakeholders
- Conducting periodical departmental review meetings to assess COs, POs and PEOs, monitor the attainment of targets in terms of COs, POs and PEOs.
- Regular BOS/Academic council/Governing body meetings for approval of the adopted curriculum and getting approval from relevant Statutory Regulatory Authority for novel programmes.
- 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.
- NBKIRST offers committees, complaint boxes, social awareness programs, and regular sports, photography, music, drama, literature, and painting clubs for anonymous grievance and improvement reporting.

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional Information	<b>Nil</b>

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

**NBKIRST is strongly committed to decentralization in all academic and administrative activities, with various committees responsible for monitoring, planning, and executing the functioning of the college in a smooth manner.**

**Case Study : Administrative Decentralization:**

- **Board of Governing body:**
  - Compositions : Chairman, Govt. Nominee, University Nominee, UGC Nominee, Members, Member of Secretary.
  - Responsibilities : Planning and policy development, institutional budget, academic and research growth of the institute and other extension activities.
- College Administration:

- **Administrative composition :** Chairman, Correspondent, Director, Heads of the Departments, Faculty, Supporting staff.
- **Responsibilities:** To deal with college's development plan focuses on academic, administrative, and infrastructural growth, enabling the addition of curricular, co-curricular, extracurricular and research activities. The Director directs departmental heads to prepare the annual budget, with faculty members submitting laboratory requirements and quotations. NBKRIST practices decentralization, providing operational autonomy for procurement, requisition preparation, and supplier payments.

#### **Academic Decentralization:**

- **Composition:** The Academic Council Committee, composed of administrative staff and faculty members.
- **Responsibility:** Strive for the holistic development of the college and recommends improvements to student facilities and campus experiences.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional Information	<b>Nil</b>

#### **6.2 - Strategy Development and Deployment**

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

NBKRIST, every three academic years, devises strategic plans aimed at realizing its institutional vision. These plans are geared towards providing high-quality education, research opportunities, and career support, benefiting all stakeholders. The institute focuses on several key strategic areas:

**1. Curriculum Development:** NBKRIST designs its curriculum to align with program objectives, ensuring students acquire

necessary knowledge and skills. The curriculum covers diverse areas including humanities, basic sciences, engineering, and co-curricular activities.

**2. Teaching and Learning:** The institute employs innovative teaching methods, including ICT-enabled education and learner-centered approaches. It emphasizes practical learning through industrial visits, workshops etc.

**3. Examination and Evaluation:** NBKRIST utilizes a EMS for exam scheduling, conduct, and result processing. The system ensures timely publication of results and provides a platform for grievance redressal and monitoring against malpractice.

**4. Library, ICT, and Infrastructure:** The institute continuously upgrades its ICT infrastructure, providing high-speed internet and department-specific computational facilities..

**5. Research and Development:** NBKRIST promotes research through departmental monitoring committees and collaborations with local industries. It incentivizes faculty and student involvement in research activities and encourages publication and external project funding.

Overall, NBKRIST's strategic plans aim to enhance educational quality, facilitate research, and foster a conductive learning environment, thereby advancing its institutional vision.

File Description	Documents
Strategic Plan and deployment documents on the website	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>
Upload any additional information	<b>No File Uploaded</b>

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

**The chairman heads the institution's governing body and executive committee, with the correspondent, secretary, and other members responsible for decision-making. The Director**

is solely responsible for managing the NBKR Institute of Science and Technology and is authorized to achieve the institution's vision and mission. The Director manages the college's academic and administrative affairs with a team of departmental heads (HODs), deans, an IQAC coordinator, all departmental faculty, the controller of the examination (COE), and the administrative division head. The composition of administration comprises governing bodies, an academic council, an IQAC coordinator, and a student council. Regarding service rules, college procedures, and recruitment and promotion policies, NBKRIST strictly adheres to the recruitment rules and eligibility criteria defined by the University Grant Commission. In addition, college rules and policies are amended from time to time based on the requirements and for the benefit of promotional opportunities for teachers and non-teaching staff.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="https://www.nbkrist.co.in/orgchart1.php">https://www.nbkrist.co.in/orgchart1.php</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<b>Nil</b>

<b>6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination</b>	<b>A. All of the above</b>
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File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

### **6.3 - Faculty Empowerment Strategies**

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

and avenues for their career development/ progression

The management NBKRIST provides independent residential quarters for teaching and non-teaching staff, with employee-provident fund and gratuity schemes. They offer a group insurance scheme, earned leave, and paid vacation. Staff members receive financial assistance for professional bodies, medical and maternity leave, and cash incentives for publishing research works. The campus clinic offers free primary medical services, and health camps are organized for both teaching and non-teaching staff.

In case of non-teaching staff, Annual Dearness Allowance revisions, financial assistance for economically backward staff children, medical and maternity leave, free primary medical services, health camps, and assistance to staff families in case of personal loss.

The college organizes campus health camps, supports students through various initiatives like the Computer Centre, Library, Book Bank, Canteen, Anti-Ragging Cell, In-campus Hostel, Internals Complaints Committee, and updated website. All teaching staff/non-teaching staff/students are provided with a subsidized transport facility from designated pick-up points to and from the college.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year**

11

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

### 6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

6

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

### 6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

97

File Description	Documents
Summary of the IQAC report	<b>No File Uploaded</b>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

## 6.4 - Financial Management and Resource Mobilization

### 6.4.1 - Institution conducts internal and external financial audits regularly

Every financial year, budget proposals are made on various heads, such as laboratory equipment, library expenses, salary payments, and building infrastructure. These proposals are verified by the finance committee and submitted to the

governing body for approval. An internal audit committee, consisting of the Director, Auditor, and senior faculty member, reviews and suggests changes to these proposals. The committee also examines budget proposals, receipts, bills, vouchers, and supporting documents. An external audit team, led by a chartered accountant, visits the institute regularly and addresses any objections raised during the audit. The accounts audited are submitted to the governing body for approval.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### **6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)**

0

File Description	Documents
Annual statements of accounts	<b>No File Uploaded</b>
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	<b>No File Uploaded</b>
Any additional information	<b>No File Uploaded</b>

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

**NBKIRST primary funding source is the annual fee received from students, which is collected in accordance with state fee regulations. The fee is converted into fixed deposits and withdrawn regularly to cover expenses. Funds are also raised through supported projects, consultancy, and philanthropic contributions. Research grants are used to cover equipment, travel expenses to attend scientific conferences, and stipend expenses.**

**The budgetary process commences with department/section heads submitting budget proposals, covering various aspects like**

infrastructure development, educational resources, and cultural activities, to the finance committee. Monthly budgetary needs are also outlined in these proposals. The finance committee reviews these proposals, prepares minutes of its meetings, and convenes a gathering of department/section heads to suggest adjustments for balanced finances. The finalized budget estimate is then presented to the governing body for approval. Upon approval, the budget allocations are communicated to departments and sections, with the institute ensuring continuous monitoring of budget utilization.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

## 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The emphasis on ICT in teaching and learning is being boosted, with faculty encouraged to use ICT tools, internet reference facilities, and various training courses arranged. IQAC submits AQARs and Best Practices to NAAC and UGC, and collects student feedback on teachers for improvement. It plays a crucial role in improving teaching, research, and extension, and encourages flexibility in administrative procedures for research projects.

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	Nil

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

**The IQAC reviews the teaching-learning process, structures,**

and outcomes, schedules the academic calendar, and records lecture details. It organizes regular audits, verifies internal test analysis, arranges special classes for weak students, and recommends new processes for improvement. The institute analyzes student performance after semester results, seeks feedback from stakeholders, and encourages faculty participation in online certification courses. It also organizes faculty development programs and skill training programs annually. IQAC seeks to enhance the institution's reputation by achieving accreditation and high rankings, attracting top-tier faculty and students. IQAC involves verifying internal test analysis, question papers, arranging special classes for weak students, identifying new processes for quality improvement, and analyzing deviations from benchmarks. Feedback from the stakeholders (students, alumni, industry experts, research organizations, and parents) is taken periodically.

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	<b>Nil</b>

<b>6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)</b>	<b>A. Any 4 or all of the above</b>
--	-------------------------------------

File Description	Documents
Paste the web link of annual reports of the Institution	<b>Nil</b>
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

**N.B.K.R. Institute of Science & Technology, Vidyanagar** strives in its spirit of academic and social endeavours in terms of women empowerment, women's rights and gender equity. Our Institute aims to empower girl students and women faculty on women issues and to make the campus a safe and protective place for girls and women.

Measures initiated by the Institution for the promotion of gender equity during the year :

- Facilities are provided to the girl students & female faculty, taking care of their gender sensitivity issues.
- Our Institute organizes several programs and events to promote gender sensitisation among the students, teaching and non-teaching staff community within the campus.
- The facilities provided for women in terms of Safety and security, Counselling, Common Rooms etc.
- The institute has a policy of appreciating faculty without gender bias. Women faculty are nominated, based on their ability, as conveners of various committees and discharging their duties efficiently.
- A separate Online Grievance redressal cell for women, Women Empowerment Cell, Internal Complaints Committee are formed.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil
<b>7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment</b>	<b>B. Any 3 of the above</b>
File Description	Documents
Geotagged Photographs	No File Uploaded
Any other relevant information	<a href="#">View File</a>
7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)	
<p><b>Solid waste management :</b></p> <p>The campus manages solid waste systematically through collection, segregation, transportation, and disposal. A twin bin system separates biodegradable and recyclable waste, with clear labelling. Biodegradable waste, like kitchen waste and plant products, undergoes composting for use as manure in gardening. Non-biodegradable items such as plastic bottles, glass, and aluminium cans are separated and transported to local dump yards. Hazardous waste from laboratories is disposed of safely by trained workers. Efforts to reduce waste include banning plastic cups, plates, and cutlery.</p>	
<p><b>Liquid waste management :</b></p> <p>Proper management of liquid waste is crucial for maintaining hygiene in educational institutions. Waste from lavatories and bathrooms is collected via pipes and sent to a septic tank.</p>	
<p><b>E-Waste management :</b></p>	

- Due to advancement in the technology various electronic equipments/ products/gadgets tend to become obsolete and hence there is a need of E-waste management.
- The collected material is disposed for recycling through authorized vendors.
- E-Waste is collected regularly and stored in well protected E-waste store room.
- Old operational equipments such are distributed to poor students.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<b>No File Uploaded</b>
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

<b>7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus</b>	<b>B. Any 3 of the above</b>
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File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

#### **7.1.5 - Green campus initiatives include**

<b>7.1.5.1 - The institutional initiatives for greening the campus are as follows:</b>	<b>A. Any 4 or All of the above</b>
<ol style="list-style-type: none"> <li>1. Restricted entry of automobiles</li> <li>2. Use of bicycles/ Battery-powered vehicles</li> <li>3. Pedestrian-friendly pathways</li> <li>4. Ban on use of plastic</li> </ol>	

**5. Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<b>No File Uploaded</b>
Any other relevant documents	<b>No File Uploaded</b>

**7.1.6 - Quality audits on environment and energy undertaken by the institution**

<b>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</b>  <b>1. Green audit</b> <b>2. Energy audit</b> <b>3. Environment audit</b> <b>4. Clean and green campus recognitions/awards</b> <b>5. Beyond the campus environmental promotional activities</b>	<b>D. Any 1 of the above</b>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<b>No File Uploaded</b>
Certification by the auditing agency	<b>No File Uploaded</b>
Certificates of the awards received	<b>No File Uploaded</b>
Any other relevant information	<b>No File Uploaded</b>

<b>7.1.7 - The Institution has a disabled-friendly and barrier-free environment:</b>  <b>Ramps/lifts for easy access to classrooms and centres</b> <b>Disabled-friendly washrooms</b> <b>Signage including tactile path lights, display boards and signposts</b> <b>Assistive technology and facilities for persons with</b>	<b>A. Any 4 or all of the above</b>
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**disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.**

File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
Policy documents and brochures on the support to be provided	<b>No File Uploaded</b>
Details of the software procured for providing assistance	<b>No File Uploaded</b>
Any other relevant information	<a href="#">View File</a>

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

**N.B.K.R. Institute of Science & Technology, Vidyanagar, is actively involved in various activities to build and promote an environment for ethical, cultural, and spiritual values among the students and faculty. This includes celebrating significant days honoring eminent personalities and national festivals, organizing NSS activities, and promoting a sense of tolerance and respect for diversity. As part of the curriculum, all B.Tech. students are required to study the Constitution of India and professional ethics, highlighting their importance.**

The College and its teachers and staff jointly celebrate the cultural and regional festivals, like New Year's day, teacher's day, orientation and farewell program, Induction program, plantation, women's day, yoga day etc. 5 villages were adopted under UBA. Students and faculty distribute needy things to the poor people hearby village through "Helping Hands".

The institute celebrates important national festivals like Republic Day and Independence Day with enthusiastic participation from staff and students, featuring inspiring

speeches. The college celebrates cultural and regional festivals like youth festival.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<b>No File Uploaded</b>

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

**NBKIRST prioritizes imparting constitutional obligations, values, rights, duties, and responsibilities in staff and students. They prescribe the Constitution of India as an audit course and conduct awareness campaigns, orientation programs, and seminars to sensitize future leaders to human values and constitutional obligations.**

Independence Day is celebrated annually to emphasize the struggle for freedom and the Indian Constitution's importance, while Constitution Day is celebrated on November 26th in various college departments.

NBKIRST celebrates national festivals by hoisting the flag and inviting influential figures to inspire students and staff. It establishes core values policies, prepares a code of conduct for students and staff, and encourages participation in sports, games, NCC, and NSS at the national level to strengthen nationwide bonds and relations. National leaders' quotes are displayed across all departments to honor their noble ideals and appreciate their contributions to society.

Due to government restrictions during the pandemic, numerous programs were halted.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<b>No File Uploaded</b>
Any other relevant information	<b>No File Uploaded</b>

<b>7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized</b>	<b>B. Any 3 of the above</b>
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File Description	Documents
Code of Ethics - policy document	<b>No File Uploaded</b>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	<b>No File Uploaded</b>
Any other relevant information	<b>No File Uploaded</b>

<b>7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals</b>
<b>Institute celebrates national festivals like Independence day, Republic day, NSS Day, Yoga Day, NCC day, etc to instill the patriotism and spirit of national unity among it's students and also celebrates birth and death anniversaries of great Indian personalities like; Engineers day, Sir CV Raman's birthday, Mathematics day, Gandhi Jayanthi, Sradar</b>

**Vallbhay Patel Jayanthi involving all the students and teaching community.**

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<b>No File Uploaded</b>
Geotagged photographs of some of the events	<a href="#"><u>View File</u></a>
Any other relevant information	<b>No File Uploaded</b>

## 7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

**Best Patrice - 1**

**1. Title: Self-esteem & Self-Discipline**

**2. Objectives:** Sports significantly shape personalities and maintain good health. The college provides financial and physical support to sports boys and girls, fostering a sense of pride in their achievements. The main mission of this practice is to nurture students' innate talents and hidden potential in sports, with the following objectives:

- To motivate and empower students to participate in physical activity and maintain a healthy lifestyle.
- To instill self-assurance, collaboration, and perseverance in individuals, preparing them to tackle life's challenges.
- To enhance social interaction, boost self-esteem, and foster a positive outlook, while providing players with necessary physical and emotional support.
- To produce state/national/international level players
- 1. Title: The implementation of outcome-based pedagogy
  
- 2. Objectives: An Outcome-Based Pedagogy aims to enhance students' job skills and employability through structured tasks such as certificate courses, seminars, internship programs, fieldwork, student project work, and workshops. This best practice focuses on students'

choice of subjects, enhancing their knowledge and employability for their future careers. The activities aim to provide practice-oriented knowledge, skill training, thorough subject knowledge, software and hardware, technical skills, communication, and soft skills for job competition success.

File Description	Documents
Best practices in the Institutional website	<b>Nil</b>
Any other relevant information	<b>Nil</b>

### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

To achieve academic success, institutions must assess their strengths and weaknesses in relation to long-term goals, and provide appropriate curricula, academic support, and services to help achieve these goals. NBKRIST, like many diversified institutions, aims to create an ecosystem that supports students from diverse backgrounds, aiming for a wide range of outcomes.

NBKRIST aims to provide quality education through moral, ethical, and social responsibilities, motivate students to develop creative potential and critical thinking, equip them with skills for global adaptation, and provide access to multiple career opportunities.

In the context of research development, NBKRIST has given much significance to the establishment of research project labs with advanced equipment and software, enhancing research activities. High-bandwidth internet connectivity and Wi-Fi facilities are available for students and faculty. The institution encourages students and scholars to visit specialized laboratories at external industries and institutions.

In addition to the regular academic and research activities,

NBKIRST focuses on students' personality development in relation to societal needs, encouraging them to participate in activities such as green environment initiatives, visiting orphanages, and conducting awareness programs. Each department within the institution has a Department Social Responsibility team responsible for this, ensuring students' well-being and contributing to society's development.

File Description	Documents
Appropriate link in the institutional website	<b>Nil</b>
Any other relevant information	<b>No File Uploaded</b>

#### 7.3.2 - Plan of action for the next academic year

1. Start the work by following the guidelines under National Education Policy (NEP) 2020.
2. Enable 30% to 50% of the faculty to register or complete online NPTEL and SWAYAM MOOC courses and get certified.
3. Conduct training programmes for students for placement and endeavor to secure 100% placement.
4. Conduct faculty development programs per semester per department.
5. Create a career guidance and lifelong learning center for the benefit of students.