



YEARLY STATUS REPORT - 2022-2023

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.	8985382247
• Mobile No. (Principal)	07382297655
• Registered e-mail ID (Principal)	director@nbkrist.org
• Address	Vidyanagar, Kota Mandal, Tirupati Dist., Andhra Pradesh
• 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. **9440366871**
- 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	16/09/2009	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/Sch ool	Scheme	Funding Agency	Year of Award with Duration	Amount
Nil	Nil	Nil	Nil	Nil

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 3

- 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)

- ? IQAC is involved in designing curriculum and syllabuses, focusing on outcome-based education models and industry requirements.
- ? IQAC promotes business startups through an entrepreneurship development cell and a weekend lab for students to work on innovative project ideas.
- ? Encourage the students to participate in various state/National level scientific events.
- ? IQAC works with the Industry Institute Interaction Cell to forge industry connections through MOUs, guest lectures, workshops, seminars, and industrial visits.
- ? Online/offline remedial classes are planned to conduct for slow learners.

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 Monitor Teaching Learning process	The Academic Audit is conducted at the conclusion of each semester.
To conduct extension activities under NSS	NSS is organizing over 10 activities in 2022-23, such as tree plantation, blood donation camp, cleanliness drive, and NSS camp.
To develop a gender sensitization and equity program.	The 03 programs are organized by ICC/WDC on gender sensitization
To participate in NIRF 2023	Institute has participated in NIRF 2023 and the report is uploaded on website
To organize activities and programs for placement of students	Programs are conducted for placement of the students
To organize activities and programs for placement of students	Programs are conducted for placement of the students

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

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Governing Body	04/11/2023

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

- Year

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Institution/ Department/Faculty/Sc hool	Scheme	Funding Agency	Year of Award with Duration	Amount
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Governing Body	04/11/2023
14. Was the institutional data submitted to AISHE ?	Yes
<ul style="list-style-type: none"> • Year 	
Year	Date of Submission
2022-2023	07/03/2024

15.Multidisciplinary / interdisciplinary

Since 2021, significant measures have been taken to implement the National Educational Policy (NEP-2020), with the aim of transforming NBKRIST into a comprehensive multidisciplinary institution. NBKRIST held meetings with Governing Body members, Directors, academic council members, senior faculty members and HODs to discuss the plan for integrating NEP-2020 philosophies into the curriculum. An institute-level committee has been established to develop an action plan for the effective implementation of NEP-2020's policy, with preparations currently in progress.

16.Academic bank of credits (ABC):

NBKRIST has implemented the Academic Bank of Credits (ABC) scheme, as per the National Education Policy 2020, in February 2023. ABC allows students to register or commence credit transfer, final outcomes of credit redemption, issuance of certificates, and compilation of award records. NBKRIST has nominated Dr. D. Subba Reddy, Deputy Controller of Examinations, as Nodal Officer and Verifying Officer of NAD. NBKRIST has taken all necessary measurements to ensure the uploading of students' data for the generation of digital marksheets for the 2022 admitted batch. The institute has also generated ABC IDs for effective implementation of ABC policy. In this context, NBKRIST encourages all core department faculty to design their own curricular and pedagogical approaches within the approved framework, including textbook, reading material selections, assignments, and assessments. Eventually, NBKRIST will adopt the Multiple Mode Teaching and Learning Pattern (MMTLP) to identify innovative teaching modes for different types of syllabus content and enhance skill development.

17.Skill development:

In NBKRIST, the curriculum includes skill-based mini-projects to enhance domain-specific and multi-disciplinary application of knowledge. Faculty Induction Programmes are conducted for domain-specific, pedagogical, and multi-disciplinary skill enhancement. In-house summer internships are offered for skill development in multi-disciplinary domains, with mandatory soft-skills development internships for III-year students. Full VIII semester internship placements at relevant industries with industry mentors or research projects under institute mentors are also offered. Value-based education courses on Universal Human Values and Ethics and Indian Constitution & Traditional Knowledge are

also offered. NBKRIST has various clubs, such as the Holistic Health Club, Yoga Club, Dance and Music Clubs, and Meditation Club, which organize lectures by prominent personalities and invite experts for workshops. SELP programs of "Art of Living" are also conducted periodically. The institution aims to design a credit structure for all students to take at least one vocational course before graduating, engage industry veterans, and provide vocational skills. Skill-based projects are designed for effective learning in lab courses, with a certain percentage of credit weight assigned to the project.

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

In NBKRIST, the Indian Knowledge System (teaching in Indian language, culture, etc.) is being integrated into the curriculum of courses. Courses such as Physical Health, Health & Hygiene, Arts & Crafts and Language Skills, Know Your Country (History, Culture, Tradition), Bhagwat Gita, Universal Human Values and Ethics, and Indian Constitution & Traditional Knowledge. NBKRIST has numerous clubs, such as the Holistic Health Club, Art Club, Yoga Club, Dance and Music Clubs, and Meditation Club. The faculty and staff are encouraged to deliver in bilingual mode, and pedagogical training programs are conducted regularly. Various degree courses are taught in Telugu and English. NBKRIST is also promoting the preservation and promotion of Indian languages, ancient traditional knowledge, Indian arts, and Indian Constitution and traditional knowledge.

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

NBKIRST has framed plan of action to provide necessary training for faculty in Outcome Based Education (OBE) with a team of IQAC coordinators. The curriculum is developed based on Course Outcomes identified in line with NEP-2020, emphasizing skills. Course content and COs are published on the website and shared with all stakeholders. The Board of Studies (BOS) monitors CO attainment, development of the CO-PO matrix, and course articulation metrics. The scheme has been modified to map all POs with proper strength by adding different components. NBKRIST follows a student-centric teaching-learning model, using a MOODLE (Modular Object-Oriented Dynamic Learning Environment) for uploading teaching material, quizzes, and assignments. Faculty has been trained to write COs using Bloom's taxonomy, prepare question papers mapping with Bloom's levels, and ensure CO coverage through various assessment methods. Lecture plans are prepared using the Multiple Mode Teaching-Learning Pattern

(MMTLP) to target attainment of LOTs and HOTs. Eventually, in NBKRIST examination reforms are implemented in line with the NEP concept of "Move Away from high-stake examinations" to unburden students. End-term examinations are conducted using traditional pen-paper mode, MCQ mode, and assignment plus oral mode, providing teachers with flexibility to assess learning outcomes and evaluate students' ability to "Apply", "Analyze", "Evaluate", and "Design/Create".

20. Distance education/online education:

NBKIRST provides blended teaching and learning under various modes, with a course-wise "Mode of Teaching" specified. This type of practice allows for flexibility in teaching methods in specific situations, with faculty taking students outside the class or assigning assignments to enhance learning outcomes. NBKRIST encourages all the students and faculty to follow the courses through NPTEL, and it is worthy to mention that about 7% of the credits are earned through MOOCs, and NBKRIST has already surpassed the target set for credit transfer in the NEP Action Plan. Lecture recordings are eventually uploaded to the college website, and the institute offers a skill enhancement program and mandatory audit courses in blended mode. The faculty prepares MOOCs in the institute's state-of-the-art digital studio, allowing "anytime, anywhere" learning formats. Virtual labs are also used for learning.

Extended Profile

1. Programme

1.1	11
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Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2. Student

2.1	3404
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Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2

847

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

839

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

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1

116

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2

183

Number of full-time teachers during the year:

Extended Profile

1.Programme

1.1

11

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1

3404

Total number of students during the year:

File Description	Documents
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File Description	Documents
Institutional Data in Prescribed Format	View File

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839

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

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Institutional Data in Prescribed Format	View File

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3.1

116

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2		183
Number of full-time teachers during the year:		
File Description	Documents	
Institutional Data in Prescribed Format	View File	
3.3		183
Number of sanctioned posts for the year:		
4.Institution		
4.1		336
Number of seats earmarked for reserved categories as per GOI/State Government during the year:		
4.2		68
Total number of Classrooms and Seminar halls		
4.3		1135
Total number of computers on campus for academic purposes		
4.4		10,62,44,548 /-
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.

NBKIRST has been granted academic autonomous status by JNTUA, Anathapur and regular curriculum revisions are conducted by the Board of Studies, confirmed by the Academic Council. From the academic year 2021 - 2022, a flexible curriculum has been implemented and an action plan for the effective integration of National Education Policy 2020 is concluded.

In synchronizing with local, regional, national, and global needs, students foster the required domain knowledge, skills, and attitude by considering the following factors: (i) Reports of various reputed organizations; (ii) Model curriculum prescribed by AICTE; (iii) Mapping with Program Outcomes; (iv) Suggestions by industry experts and alumni; (v) Syllabi of various competitive exams. The curriculum addresses the following national missions: Digital India (incorporation of MOOCs and digital pedagogy), Unnat Bharat Abhiyan, Women Empowerment, and Skilling India (provision of skill-based mini projects).

The curriculum aligns with Program Outcomes, Program-Specific Outcomes, and Course Outcomes for various programs. The Institute monitors PEO, PO, and PSO attainments for respective programs, which align with the vision and mission of NBKRIST.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	Nil

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

0

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	No File Uploaded
Any additional information	No File Uploaded

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

30

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

1.2 - Academic Flexibility

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

0

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	No File Uploaded
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	No File Uploaded

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

0

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	No File Uploaded
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	No File Uploaded

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

The curriculum for future engineers should encompass moral

values, ethical conduct, social sensitivity, and sustainable practices, preparing them to build a better future. In NBKRIST, designed syllabus addresses various considerations, offering mandatory courses like Energy & Environment, Cyber Security, Ethics, Economics, Entrepreneurship & Management, Indian Constitution & Traditional Knowledge, Disaster Management, Intellectual Property Rights, Project Planning & Financing, and orientation to these issues. Additional mandatory courses include Universal Human Values and Professional Ethics (UHVPE).

NBKRIST's gender sensitization cell is promoting a respectful campus through engaging activities, poster competitions, and thought-provoking sessions, empowering students to become change agents.

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	View File
Any additional information	View File

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

20

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	View File

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

1012

File Description	Documents
List of students enrolled	View File
Any additional information	View File

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

1379

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

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	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

B. Feedback collected, analysed and action taken

File Description	Documents
Provide URL for stakeholders' feedback report	Nil
Any additional information	View File

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****3404**

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

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)**533**

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

2.2 - Catering to Student Diversity**2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.**

In NBKRIST, after completion of MID exams, students categorize into slow, medium, and fast learners, and uses various methods to help them achieve their learning goals. Fast digital learners attend all classes, submit assignments, and appear for quizzes. Medium-level digital learners attend at least one online class per week and submit or appear for at least 50% of assignments and quizzes. Slow digital learners do not attend online classes or participate in less than 10% of classes, and do not submit assignments or quizzes.

In the case of slow learners, at each department level, activities are conducted for slow learners, such as remedial classes, unit-wise question banks based on previous-year question papers, Extra quizzes for practice, extra assignments for practice, and virtual labs for better understanding of the course.

In case of fast learners, Institute encourages the students to

involve actively in the actives such as ; higher learning through assignments, quizzes, virtual labs, MOOCs, earning SWAYAM/NPTEL certificates, minors and honors, hackathon participation, placement support through workshops and alumni interaction, and support in higher education and career growth through Research Internship Scheme and publication of research papers.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.nbkrinst.co.in/naacaqar22_23.php

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
05/01/2023	3404	183

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

In NBKRIST, the following student - centric methods are adopted for the benefit of the students.

Experiential learning through: Various projects, industry visits, guest lectures, field visits, surveys, competition participation, and novel engaging courses. Students are also encouraged to participate in competitions and take field visits to nearby places as per course requirements.

Participative Learning Methodologies: Various group activities, NSS activities, NCC and sports activities, club and society chapters, mandatory internship programs, seminars, and interactive classes. Seminars provide students with opportunities to enrich their learning experience, communication skills, and lifelong learning. Interactive classes with students

discussing topics shared in advance.

Problem Solving Methodologies: In the UG VII semester, students are required to propose innovative solutions to societal problems. This course includes research, skill-based mini projects, quizzes and assignments, and tutorial classes. These projects aim to solve open-ended problems and are part of all practical-based courses.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	https://www.nbkrinst.co.in/naacaqar22_23.php

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

In NBKRIST, Faculty members are integrating technology with traditional teaching methods to enhance student efficiency and effectiveness through the use of ICT facilities. The corresponding list includes projectors, interactive boards, desktops and laptops, MOOC center, online platforms like Zoom, Google Meet, Microsoft Team, MOOC platforms like NPTEL and Coursera.

Faculty have adopted ICT-enabled tools to improve the teaching-learning process through various online platforms, including Zoom and Google Meet, PowerPoint presentations, and Online Industry Connect. It also offers online quizzes, recorded video lectures, and online competitions. ICT tools are used for conducting seminars, workshops, conferences, and virtual labs. During the pandemic, virtual labs were conducted by recording experiments and demonstrating them to students during practical classes. These methods help students stay connected and engaged in their studies.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	http://202.65.149.252:93/
Upload any additional information	View File

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

2.3.3.1 - Number of mentors

150

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

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

The Academic Council of NBKRIST prepares the Academic Calendar at the start of the academic year, consulting with the Director, Dean, Student Welfare, and HODs. The calendar includes information about semester registration, teaching session commencement, vacations, mid-semester examination dates, end-semester examinations, proficiency tests, internships, and academic audits. It is distributed to stakeholders and strictly followed, even during the pandemic. All academic activities, mid-semester examinations, quizzes, in-house summer internship programs, finishing school, final year internships, employability skill training, and remedial classes are conducted as scheduled.

Faculty Teaching Plans and Lecture Plans

- Faculty members create teaching plans based on department-prepared timetables.
- Lecture plans follow Multiple Mode Teaching Learning Pattern (MMTLP).
- Plans aim to identify innovative teaching modes, enhance skill development, cater to fast-changing technological

scenarios, and introduce a global perspective.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

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

183

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

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

65

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	View File
Any additional information	No File Uploaded

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

1425

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

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	View File
Any additional information	View File

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

45

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

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

In NBKRIST, An Integrated Management System and Examination Control Software System have been implemented for pre-examinations, examinations, and post-examination activities, incorporating various features.

This process involves student enrollment, attendance verification, evaluation component entry, grade calculation, student tracking, result compilation, declaration, printing of

degrees and certificates, report generation, and online semester/module fee payment. It also includes student tracking, compilation, declaration of results, and student tracking.

Reforms in the examination procedures and processes: This involves continuous assessments in theory courses, including mid-semester exams, quizzes, and assignments, and practical courses with viva-voce and skill-based mini projects. End-term evaluations include end-semester exams and course proficiency. The course uses multiple modes, including MCQ-based, assignment, oral, and pen and paper assessments, and credit transfer through MOOC platform. The AICTE exam reform policy has led to the provision of online viva-voce examinations for PG dissertations, with questions set based on the course outcomes and Bloom's Level of Learning. The evaluation system for professional development courses and skill-based mini projects, self-study/seminars is transparent, with evaluation criteria framed according to the course's nature.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.nbkrist.co.in/showallexamcell.php

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

In NBKRIST, the process of spreading and publicizing program outcomes among students and teachers involves various methods.

- The institute website displays program outcomes for each department, while the curriculum booklet provides them at the beginning. Other resources include class rooms, department notice boards, laboratories, department corridors, student induction programs, meetings with stakeholders, faculty meetings, professional body meetings, and the HOD cabin.
- Course Outcomes (COs) are created at the department level by the OBE coordinator and course experts using guidelines. Approved COs are then included in the syllabus, which is then discussed in a Board of Studies meeting for approval.

- Course Outcomes (COs) for all courses are communicated to teachers and students through various methods, such as: The IQAC coordinator in each department emphasizes the importance of CO during the orientation program at the start of each semester. COs are communicated by the class coordinator and faculty members, and discussed during the introduction class. COs and lesson plans are uploaded on MOODLE, and learning outcomes are focused in each lecture. Course outcomes are reviewed and discussed with students during and after each unit.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

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

Direct and indirect assessment methods are utilized to assess the accomplishments of POs, PSOs, and CO.

Direct Assessment Methods: Continuous assessment involves rubric-based assessments for lab, seminar, and project work, mapping each rubric with CO, PO, and PSO, and semester-end theory examinations.

Indirect Assessment Methods: This includes a course end survey, an exit survey, an alumni survey, and an employer survey.

Measuring CO attainment: The overall CO attainment level of a course outcome is calculated using rubrics: direct CO attainment = $0.7x$ CO attainment through End Sem Exam, $0.2x$ CO attainment through Mid Sem Exam, $0.05x$ CO attainment through Quiz, $0.05x$ CO attainment through assignments, $0.5x$ CO attainment through student feedback, $0.25x$ CO attainment through Course End Seminar, and $0.8x$ CO attainment level.

Measuring PO/PSO Attainment: Attainment of POs and PSOs is computed by using direct and indirect assessment methods.

Process for Direct POs, PSOs Assessment: Using CO-PO & CO-PSO

matrix for each course, the POs, PSOs attainment for given CO attainment in a course is computed for all the courses. The average of PO attainment in individual Courses is the final direct PO/PSO attainment in the level of 1,2 & 3.

Process Indirect Assessment Tools: Alumni feedback, Industrial Feedback, Graduate Exit Feedback.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.nbkrinst.co.in/Naacaqarworks.php

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

788

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

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.nbkrinst.co.in/Iqac/SSS-2022-2023.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 actively promoting research through various initiatives, with the Board of Deans showing keen interest in research outcomes. NBKIRST has a well-documented policy for promotion, approved by the Governing Body, and has implemented new initiatives post-accreditation, including seed money for research, awarding faculty members who publish papers in indexed journals, conducting workshops on research methodology, offering research internships to final year students, and adhering to plagiarism guidelines.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	Nil
Any additional information	No File Uploaded

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	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	No File Uploaded
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

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

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	No File Uploaded
Any additional information	No File Uploaded

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)

0

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	No File Uploaded
List of projects and grant details	No File Uploaded
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

0

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	No File Uploaded

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	View File
Institutional data in Prescribed format	No File Uploaded

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

0

File Description	Documents
Supporting document from Funding Agencies	No File Uploaded
Paste link to funding agencies' website	Nil
Any additional information	No File Uploaded

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 dedicated research and innovation centers in all core departments, funded by the different national level scientific agencies. The institute generates intellectual property (IPR) through products, patents, publications, and human resources. These facilities are used for faculty, staff, and student training, and research findings are shared with other departments through faculty training programs and FDPs. Students at undergraduate level work on projects and dissertations, with submission requiring publication in a journal or conference.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nbkrist.co.in/EDcell.php

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

File Description	Documents
Report of the events	No File Uploaded
List of workshops/seminars conducted during the year	<u>View File</u>
Any additional information	<u>View File</u>

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

E. None 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	No File Uploaded
Any additional information	No File Uploaded

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

File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	No File Uploaded
Any additional information	No File Uploaded

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

108

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

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

28

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

13

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

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

2

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

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

0

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	No File Uploaded
List of consultants and revenue generated by them	No File Uploaded
Any additional information	No File Uploaded

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	No File Uploaded
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

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

NBKIRST is teaching social responsibility to second-year students through National Service Scheme (NSS) activities such as blood donation, tree planting, aids awareness, and Swachhata Abhiyaan. The Holistic Health Club launched awareness drives through viral short videos, messages, and appeals. The NSS conducted various activities benefited for poor and needy people.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nbkrist.co.in/publications.php

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	No File Uploaded
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

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)

5

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

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

150

File Description	Documents
Reports of the events	View File
Any additional information	View File

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

10

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

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)

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

NBKIRST is situated on ** acres of green land, provides a variety of classrooms, laboratories, and computing equipment. With ** class rooms, ** labs, ** computers, and virtual labs, it offers hands-on experience for students and teachers. NBKIRST also offers licensed and open software such as MATLAB, PS CAD, Proteus Design Suite, Office Pro Plus and Turnitin. All departments are Wi-Fi enabled with 24/7 access for students and staff. The Institute also has a state-of-the-art MOOC development center, a MOODLE server, and a NPTEL local chapter for e-learning through MOOC courses. In NBKIRST continuous improvements have been made in physical infrastructure, equipment, library, and digital teaching-learning facilities to meet the needs of the growing student population and market demand for emerging technology areas.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nbkrist.co.in/index.php

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

NBKIRST is highly dedicated to holistic student development and has a Students Development Cell under the Dean of Students

Welfare to promote and organize extracurricular and co-curricular activities. The Institute has a well-developed cricket ground, basketball courts, football/hockey grounds, volleyball courts, and a courtyard ground for sports activities. Indoor sports facilities include table tennis in the canteen area and chess, carom, and skipping ropes in girl's hostel. Outdoor cultural activities are held in open air auditoriums, courtyards, and other spaces with a capacity of 300 persons in the main ground and 200 persons in the courtyard. Yoga activities are conducted on a dedicated yoga platform nearby the open-air gymnasium. The Institute has three gymnasiums, one open air and two indoor, equipped with the latest equipment and machines.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

70

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

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

774.80

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

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

In NBKRIST, Learning Resource Centre has implemented a Web-Based Integrated Library Management System to automate routine activities. The library is equipped with modern technologies, Bar Code Technology, Remote Access facility, Federated Search, and Mobile Apps for Android and iOS users. It offers Intranet OPAC and Web OPAC (Online Public Access Catalogue) facilities for book availability, and offers enhanced user experience through features like MARC 21 Cataloguing, Barcode enabled with RFID integration, and full Unicode support. The library subscribes to over ** e-journals and ** e-books from reputable publishers, and provides access to various e-resources through its NBKRIST e-Library portal. The portal offers 24X7 access to over ** e-resources, a single window search facility, a mobile app for Android and iOS users, news alerts, and a SocioLib feature.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nbkrist.co.in/libweblinks.php

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	View File
Upload any additional information	No File Uploaded

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

8,63,669/-

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

4.2.4 - 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

150

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded

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

In NBKRIST, IT policies may be classified into following groups: The policy covers IT hardware installation, software installation and licensing, network (internet & internet), email account use, and institute database use.

The policies will be applicable at two levels: NBKRIST aims to ensure secure, monitored access to software, hardware, and internet for all end users, including faculty, students, senior

administrators, officers, and staff.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3404	1135

File Description	Documents
Upload any additional information	View File

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	View File
Upload any additional information	View File

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

A. All four of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://202.65.149.252:93/
List of facilities for e-content development (Data Template)	No File Uploaded

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)

775.14

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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 has established systems for monitoring and maintaining infrastructure, libraries, sports facilities, laboratories, classrooms, and seminar halls. Four maintenance cells are developed: Civil Maintenance Cell, Electrical Maintenance Cell, ICT Maintenance Cell, and General Maintenance Cell. Civil Maintenance Cell maintains physical infrastructure, while Electrical Maintenance Cell ensures uninterrupted power supply and maintenance of electrical assets. ICT Maintenance Cell maintains facilities like computers, Wi-Fi, and security systems.

General Maintenance Cell keeps the campus clean and maintains water supply and sewage treatment. Minor work is done by labor and artisans, while major maintenance is done through the Annual Maintenance Contract System. Labs are maintained by lab in-charges and technical staff, while utilization reports are maintained by lab in-charges and HoDs. Class rooms are allocated to departments and cleaned daily, with HODs and class coordinators monitoring cleanliness.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

3080

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

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

58

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development **A. All of the above** and Skill Enhancement activities are organised for improving students' capabilities 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	Nil
Details of capability development and schemes	View File
Any additional information	View File

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

488

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

5.1.5 - The institution 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	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

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

738

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

6

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

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

0

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

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	No File Uploaded
Any additional information	No File Uploaded

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

NBKIRST has various student bodies, including BoS, Alumni Cell, and Placement Cell, which manage student clubs and facilitate campus placements. Students are also nominated by department heads as IQAC coordinators, and gender champions are appointed by class coordinators/Heads of Department from each department.

Placement coordinators and volunteers manage placement activities, while student representatives serve as alumni coordinators. Senior students' mentor junior students, and senior students have three first-year students to mentor. Student representatives are also involved in the anti-ragging committee, and class representatives are nominated by class coordinators. Students also serve as office bearers in the innovation and startup cells, and are members of Hostel mess committees.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

20

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

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

NBKIRST Alumni Association, a registered and functional organization, operates from its permanent office at NBKIRST Campus. The alumni chapters are also functional and organizing activities in the chapters.

Alumni sponsor student projects, provide financial support to NGOs and primary/high schools, contribute to alumni events, and donate caution money to the alumni fund. They also initiate scholarships for meritorious and economically weaker students.

Alumni representatives from BOG, IQAC, and BOS are actively involved in curriculum development and strengthening industry

interaction. They provide feedback on curriculum, syllabus, and advanced technologies, preparing students for industry-ready roles. They also facilitate practical work and development through discussions, internships, job placements, and organizing industrial visits and interactions. Their knowledge and experience in various organizations contribute to their involvement.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.nbkristaa.org/

5.4.2 - Alumni's financial contribution during the year

D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

NBKIRST operates under the leadership of Prof. V. Vijaya Kumar Reddy, with Governing Body Members and other faculty members holding significant administrative and academic responsibilities. The roles and responsibilities of each functionary are clearly defined and can be found on the Institute's website. The vision, mission, branding statement, and value framework are in line with the SWOT analysis, departmental vision, and stakeholder feedback.

All the faculty members actively participate in various decision-making bodies within the institution, including the Internal Quality Assurance Cell, Academic Council, Academic Development Cell, Student Development Cell, Board of Studies, Research Committee, Proctorial Board, Internal Audit Committee, Industry-Institute-Interaction Cell, Library Advisory Committee, Women Guidance, Grievances and Redressal Committee, Girls Grievance Cell, Students Grievances Cell, Discipline Committee, Central Purchase Committee, Anti Ragging Committee, Internal Complaint

Committee (ICC) for Women, Hostel Admission Committee, and Building Committee.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

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

In NBKRIST, The Director, Deans, HODs, Class - in charges and administrative departments have well defined duties.

Class Coordinators are empowered to decentralize processes, monitor attendance and student leave records, forward student documents and applications, and finalize examination forms. IQAC assigns department-level coordinators to manage various initiatives, including: The IQAC coordinator oversees CO attainment activities through assessment, rubric development, PO/PEO computation, target setting, corrective actions, gap analysis, and question paper analysis using LOTS/HOTs/Bloom's Taxonomy.

The coordinator has clear responsibilities including managing remedial/bridge classes, managing departmental web pages, managing departmental e-newsletters, enhancing alumni interaction, and managing plagiarism.

The MOODLE coordinator at NBKRIST has successfully utilized MOODLE for teaching, learning, and evaluation activities, addressing student and faculty queries through special sessions and facilitating effective utilization for quizzes, feedbacks, assignments, and midterm evaluations, making it a successful best practice in the institution.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	View File
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

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

NBKIRST has developed a strategic plan to ensure its vision and mission at academic and administrative levels, approved by the Governing Body members and continuously monitored for effective implementation and progress in ensuring quality education.

NBKIRST has a perspective plan for all academic years that includes clear targets for activities such as accreditation status, faculty recruitment, academic reforms, student progression, allocation of development funds for IT infrastructure, laboratories, research, faculty knowledge enhancement, student activities, strengthening of the technical and internal support systems, student support, alumni engagement, industry interaction, and internationalization.

In NBKRIST, the National Education Policy (NEP-2020) has been effectively implemented through clear annual projections and numeric goals, finalized in a July 2021 meeting of the Human Resource Development committee of the instate, attended by administrative heads of top national institutes.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.nbkrist.co.in/CSE-Departmentnewupdated.php
Upload any additional information	No File Uploaded

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 Governing Body members are responsible for establishing and monitoring effective control and accountability systems to ensure Outcome Based Quality Education in line with the Institute's vision.

In NBKRIST Administrative Management Overview:

- Managed by the Director through a decentralized system for academic, research, development, and extension activities.
- Board of Governors plays a crucial role in the Institute's growth through meetings and visits.
- Responsibilities shared among Dean-Academics, Dean-Students Welfare, Registrar, Exam Controller, Proctor, Department Heads, Deputy Registrar, and AO officer.
- Decentralized mechanism assigns faculty roles for empowerment and stakeholder interaction.
- Organizational chart shows various administrative responsibilities and committees for power delegation and decentralization.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.nbkrist.co.in/orgchart1.php
Upload any additional information	View File
Paste link for additional Information	Nil

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	No File Uploaded
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

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

NBKIRST has successfully implemented welfare measures for both teaching and non-teaching staff, providing them with various benefits.

NBKIRST offers various schemes in line with AP Govt. norms, including gratuity, EPF, pension, leaves, EL encashment, and university welfare schemes. It also provides promotions, upgradation, and career advancement as per government/institute norms. Faculty and staff are encouraged to attend workshops, conferences, and training programs with leave. The institution also provides seed money for research and awards for outstanding performance in teaching, research, and administration. In-house faculty and staff development programs are conducted, and the institution also conducts pedagogical approaches, finance management systems, MS-Office, office management, waste management, and fire extinguisher training. The institution also has a Grievance Redressal Cell to address faculty and staff grievances.

File Description	Documents
Upload any additional information	View File
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

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	No File Uploaded

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

45

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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.)

93

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

NBKIRST conducts annual audits on financial transactions to ensure financial compliance.

- Maintains copies of budget/notesheets, invoices, bills, and supporting documents.
- Original documents are kept in the finance & accounts section.
- Keeps details of all expenditures/transactions in the accounts office.
- Has a Resident Auditor of Govt. of Madhya Pradesh and a pre-auditing system.
- Post-audit conducted by Office of the Accounts General, Govt. of India.
- Chartered Accountant audits funds received from Management and other government bodies.
- Internal finance committee verifies income and expenditure details.
- Compliance report submitted to the Society through Director.
- Maintains transparency by publishing audited reports on the institute website.

File Description	Documents
Upload any additional information	View File
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	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

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	View File
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)

Post Accreditation Initiatives:

Implementation of Flexible Curriculum and NEP-2020

- Implementation of value-added courses.
- Credit transfer from MOOCs.
- Multiple mode teaching learning pattern.
- Academic and administrative audits.
- Faculty feedback index for monitoring T-L-E.
- Classroom digitization.
- Innovative research scheme.
- In-house internships and orientation programs.
- Gender-sensitive culture and events.
- Alumni donations.

- Digital studio MOOC development.

Contribution of IQAC in institutionalizing quality practices through continuous monitoring & review. The aim is to enhance the effectiveness of T-L-E and other quality initiatives, quantify departmental performance, and institutionalize practices. The current IMS-based feedback system addresses anomalies in Google forms, MOODLE, and MOODLE, allowing for the transfer of feedback links and the addition of students from different classes.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nbkrinst.co.in/Iqac.php

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 conducts a comprehensive review of all quality practices, including teaching and learning, and uploads various reports on its website.

NBKIRST conducts annual reviews of academic practices, one by an internal committee and the other by external experts, presented in the IQAC, with review parameters focusing on record availability, teaching practices, and quality improvement initiatives.

The IQAC is responsible for quality practices such as the development and implementation of a flexible curriculum, slow-fast learner mechanism, and remedial class mechanisms. Regular reports and compliance are presented in quarterly meetings, and a six-month monitoring through the Administrative Efficiency Index (AEI) is conducted to ensure compliance.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

6.5.3 - Quality assurance initiatives of the

A. Any 4 or all of the above

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)

File Description	Documents
Paste the web link of annual reports of the Institution	Nil
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

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

NBKIRST is renowned for its academic excellence and unique culture, has established the Girls Grievance Cell to address concerns specific to female students on campus.

The primary objectives of the Girls Grievance Cell encompass: Establishing and maintaining a secure environment. Fostering an atmosphere that advocates equality and gender justice. Providing appropriate psychological, emotional, and physical support through counseling, security measures, and other forms of assistance. Emphasizing the significance of health and hygiene. Conducting awareness programs to underscore women's rights.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

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

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	No File Uploaded

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)

NBKTRIT has implemented a two-bin system for solid waste management, separating biodegradable and non-biodegradable waste. Biodegradable waste is disposed of in a compost plant, while non-biodegradable waste is sold for recycling.

The Central Pollution Control Board of India registers e-waste from colleges for safe disposal through registered cyclers.

NBKTRIST has implemented a recycling system where biodegradable solid waste is collected and composted to produce organic fertilizers, which enhance soil nutrition. The institute also educates campus residents about the importance of waste recycling and promotes sustainable practices.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	View File

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

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

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	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

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:

E. None of the above

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

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

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 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.**

A. Any 4 or all of the above

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

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).

NBKIRST is dedicated to creating an inclusive environment that values harmony and tolerance towards diversity, including linguistic, cultural, regional, and socioeconomic aspects. Officials, including grievance redressal cells, are responsible for maintaining an inclusive workplace where everyone is treated

equally. To promote tolerance, they organize speeches, National and International Days, Events, Festivals, and cultural activities among stakeholders.

The faculty includes Director, Dean Academics, Dean Student Welfare, Head of Departments/Coordinators, Professor in charge of commemorative days, NSS Officers and Departmental Coordinators, Student Development Cell, Equity and Cultural Coordinators, Coordinator Ek Bharat Shreshtha Bharat Programme, Gender Sensitization Committee, Sports Officer, Club Faculty Coordinators, and Class Coordinators.

NBKIRST enforces a code of conduct for faculty, staff, and students, promoting inclusivity and harmony through mandatory courses and various events and activities.

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

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

NBKIRST focuses on providing comprehensive orientation programs for faculty and students, in line with AICTE guidelines.

The annual Independence Day and Republic Day celebrations in universities emphasize national pride through flag hoisting, parades, cultural events, and patriotic speeches. The Director's address on Republic Day fosters patriotism. Activities organized by students, faculty, and clubs aim to raise campus community awareness of constitutional obligations and civic responsibilities.

The Department of Humanities is enhancing academic thoroughness through the "Indian Constitution and Traditional Knowledge" course, which offers theoretical insights through classes, assignments, and Moodle quizzes, promoting a vibrant academic environment, cultural traditions, and constitutional awareness among students and faculty.

The Institute has launched a Massive Open Online Course (MOOC) on Indian Constitution and traditional Knowledge to promote

constitutional awareness, values, rights, duties, and responsibilities among stakeholders.

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

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

A. All of the above

File Description	Documents
Code of Ethics - policy document	No File Uploaded
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	View File
Any other relevant information	No File Uploaded

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

NBKIRST celebrates various national and international events and festivals to promote cultural understanding, community involvement, and patriotism. Faculty Coordinators organize celebrations for significant days like Global Iodine Deficiency Day, International Science Week Webinar, International Tolerance Day, Human Rights Day, National Energy Conservation Day, and National Cleanliness Day.

The Institute celebrates various local, state level and national level festivals for promoting inclusivity and vibrancy on campus. Independence Day and Republic Day are marked with flag-hoisting ceremonies.

NBKIRST actively participates in celebrating national and international days like Gandhi Jayanti, International Week for Science, National Youth Day, International Human Rights Day, International Yoga Day, and Voters Day, promoting seminars, expert talks, and engaging activities.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

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 PRACTICE - 1:

Title of the practice: Entrepreneurship Development Cell

1. Objectives of the Practice:

1. To create awareness on Entrepreneurships among young students
2. To facilitate the development of Entrepreneurial Skills among students of Science & Technology
3. To establish a modern category of Sustainable Technology - Competent Entrepreneurs
4. To provide complete technical and other services to budding entrepreneurs
5. To organize camps, seminars, symposia, workshops, industrial visits, conferences and other development programs

BEST PRACTICE - 2:

1. Title of the Practice: Industry Institute Interaction.**2. The objectives:**

To bridge the gap between industrial opportunities and academic results by promoting collaboration with industry, raising student awareness of social issues, and encouraging industry training for necessary exposure and experience.

To utilize existing resources like laboratories to identify industry needs and provide solutions. Fine-tune curriculum to meet industry needs, increase marketable workforce availability by improving student skills, organize workshops, seminars, conferences, and industrial visits.

To encourage collaboration between industry professionals and students to create curricula.

File Description	Documents
Best practices in the Institutional website	https://www.nbkrist.co.in/Naacaqarworks.php
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)

- **Augmentation of introducing new skill-oriented courses in view of improving campus recruitments of the students**
- **Encouraging the faculty to register for FDPs on research methodologies and to propose more number of scientific projects for various national and state level agencies**
- **Necessary measures need to plan to conduct academic audit per each semester**

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.

NBKIRST has been granted academic autonomous status by JNTUA, Anathapur and regular curriculum revisions are conducted by the Board of Studies, confirmed by the Academic Council. From the academic year 2021 - 2022, a flexible curriculum has been implemented and an action plan for the effective integration of National Education Policy 2020 is concluded.

In synchronizing with local, regional, national, and global needs, students foster the required domain knowledge, skills, and attitude by considering the following factors: (i) Reports of various reputed organizations; (ii) Model curriculum prescribed by AICTE; (iii) Mapping with Program Outcomes; (iv) Suggestions by industry experts and alumni; (v) Syllabi of various competitive exams. The curriculum addresses the following national missions: Digital India (incorporation of MOOCs and digital pedagogy), Unnat Bharat Abhiyan, Women Empowerment, and Skilling India (provision of skill-based mini projects).

The curriculum aligns with Program Outcomes, Program-Specific Outcomes, and Course Outcomes for various programs. The Institute monitors PEO, PO, and PSO attainments for respective programs, which align with the vision and mission of NBKRIST.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	Nil

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

0

File Description	Documents
Minutes of relevant Academic Council/BoS meeting	View File
Details of syllabus revision during the year	No File Uploaded
Any additional information	No File Uploaded

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

30

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

1.2 - Academic Flexibility

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

0

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	No File Uploaded
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	No File Uploaded

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

0

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	No File Uploaded
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	No File Uploaded

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

The curriculum for future engineers should encompass moral values, ethical conduct, social sensitivity, and sustainable practices, preparing them to build a better future. In NBKRIST, designed syllabus addresses various considerations, offering mandatory courses like Energy & Environment, Cyber Security, Ethics, Economics, Entrepreneurship & Management, Indian Constitution & Traditional Knowledge, Disaster Management, Intellectual Property Rights, Project Planning & Financing, and orientation to these issues. Additional mandatory courses include Universal Human Values and Professional Ethics (UHVPE).

NBKRIST's gender sensitization cell is promoting a respectful campus through engaging activities, poster competitions, and thought-provoking sessions, empowering students to become change agents.

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	View File
Any additional information	View File

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

20

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above**1012**

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects**1379**

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

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	Nil
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following	B. Feedback collected, analysed and action taken
File Description	Documents
Provide URL for stakeholders' feedback report	Nil
Any additional information	View File

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

3404

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

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)

533

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

2.2 - Catering to Student Diversity

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

In NBKRIST, after completion of MID exams, students categorize into slow, medium, and fast learners, and uses various methods to help them achieve their learning goals. Fast digital learners attend all classes, submit assignments, and appear for quizzes. Medium-level digital learners attend at least one online class per week and submit or appear for at least 50% of assignments and quizzes. Slow digital learners do not attend online classes or participate in less than 10% of classes, and do not submit assignments or quizzes.

In the case of slow learners, at each department level, activities are conducted for slow learners, such as remedial classes, unit-wise question banks based on previous-year question papers, Extra quizzes for practice, extra assignments for practice, and virtual labs for better understanding of the course.

In case of fast learners, Institute encourages the students to involve actively in the actives such as ; higher learning through assignments, quizzes, virtual labs, MOOCs, earning SWAYAM/NPTEL certificates, minors and honors, hackathon participation, placement support through workshops and alumni interaction, and support in higher education and career growth through Research Internship Scheme and publication of research papers.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.nbkrist.co.in/naacaqar22_23.php

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
05/01/2023	3404	183

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

In NBKRIST, the following student - centric methods are adopted for the benefit of the students.

Experiential learning through: Various projects, industry visits, guest lectures, field visits, surveys, competition participation, and novel engaging courses. Students are also encouraged to participate in competitions and take field visits to nearby places as per course requirements.

Participative Learning Methodologies: Various group activities, NSS activities, NCC and sports activities, club and society chapters, mandatory internship programs, seminars, and interactive classes. Seminars provide students with opportunities to enrich their learning experience, communication skills, and lifelong learning. Interactive classes with students discussing topics shared in advance.

Problem Solving Methodologies: In the UG VII semester, students are required to propose innovative solutions to societal problems. This course includes research, skill-based mini projects, quizzes and assignments, and tutorial classes. These projects aim to solve open-ended problems and are part of all practical-based courses.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	https://www.nbkrist.co.in/naacaqar22_23.php

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

In NBKRIST, Faculty members are integrating technology with traditional teaching methods to enhance student efficiency

and effectiveness through the use of ICT facilities. The corresponding list includes projectors, interactive boards, desktops and laptops, MOOC center, online platforms like Zoom, Google Meet, Microsoft Team, MOOC platforms like NPTEL and Coursera.

Faculty have adopted ICT-enabled tools to improve the teaching-learning process through various online platforms, including Zoom and Google Meet, PowerPoint presentations, and Online Industry Connect. It also offers online quizzes, recorded video lectures, and online competitions. ICT tools are used for conducting seminars, workshops, conferences, and virtual labs. During the pandemic, virtual labs were conducted by recording experiments and demonstrating them to students during practical classes. These methods help students stay connected and engaged in their studies.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	http://202.65.149.252:93/
Upload any additional information	View File

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

2.3.3.1 - Number of mentors

150

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

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

The Academic Council of NBKRIST prepares the Academic Calendar at the start of the academic year, consulting with the Director, Dean, Student Welfare, and HODs. The calendar includes information about semester registration, teaching

session commencement, vacations, mid-semester examination dates, end-semester examinations, proficiency tests, internships, and academic audits. It is distributed to stakeholders and strictly followed, even during the pandemic. All academic activities, mid-semester examinations, quizzes, in-house summer internship programs, finishing school, final year internships, employability skill training, and remedial classes are conducted as scheduled.

Faculty Teaching Plans and Lecture Plans

- Faculty members create teaching plans based on department-prepared timetables.
- Lecture plans follow Multiple Mode Teaching Learning Pattern (MMTLP).
- Plans aim to identify innovative teaching modes, enhance skill development, cater to fast-changing technological scenarios, and introduce a global perspective.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

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

183

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

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

65

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	View File
Any additional information	No File Uploaded

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

1425

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

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	View File
Any additional information	View File

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

45

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

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

In NBKRIST, An Integrated Management System and Examination Control Software System have been implemented for pre-examinations, examinations, and post-examination activities, incorporating various features.

This process involves student enrollment, attendance verification, evaluation component entry, grade calculation, student tracking, result compilation, declaration, printing of degrees and certificates, report generation, and online semester/module fee payment. It also includes student tracking, compilation, declaration of results, and student tracking.

Reforms in the examination procedures and processes: This involves continuous assessments in theory courses, including mid-semester exams, quizzes, and assignments, and practical courses with viva-voce and skill-based mini projects. End-term evaluations include end-semester exams and course proficiency. The course uses multiple modes, including MCQ-based, assignment, oral, and pen and paper assessments, and credit transfer through MOOC platform. The AICTE exam reform policy has led to the provision of online viva-voce examinations for PG dissertations, with questions set based on the course outcomes and Bloom's Level of Learning. The evaluation system for professional development courses and skill-based mini projects, self-study/seminars is transparent, with evaluation criteria framed according to the course's nature.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.nbkrist.co.in/showallexamce11.php

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

In NBKRIST, the process of spreading and publicizing program outcomes among students and teachers involves various methods.

- The institute website displays program outcomes for each department, while the curriculum booklet provides them at the beginning. Other resources include class rooms, department notice boards, laboratories, department corridors, student induction programs, meetings with stakeholders, faculty meetings, professional body meetings, and the HOD cabin.
- Course Outcomes (COs) are created at the department level by the OBE coordinator and course experts using guidelines. Approved COs are then included in the syllabus, which is then discussed in a Board of Studies meeting for approval.
- Course Outcomes (COs) for all courses are communicated to teachers and students through various methods, such as: The IQAC coordinator in each department emphasizes the importance of CO during the orientation program at the start of each semester. COs are communicated by the class coordinator and faculty members, and discussed during the introduction class. COs and lesson plans are uploaded on MOODLE, and learning outcomes are focused in each lecture. Course outcomes are reviewed and discussed with students during and after each unit.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil
<p>2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution</p> <p>Direct and indirect assessment methods are utilized to assess the accomplishments of POs, PSOs, and CO.</p> <p>Direct Assessment Methods: Continuous assessment involves rubric-based assessments for lab, seminar, and project work, mapping each rubric with CO, PO, and PSO, and semester-end theory examinations.</p> <p>Indirect Assessment Methods: This includes a course end survey, an exit survey, an alumni survey, and an employer survey.</p> <p>Measuring CO attainment: The overall CO attainment level of a course outcome is calculated using rubrics: direct CO attainment = $0.7x$ CO attainment through End Sem Exam, $0.2x$ CO attainment through Mid Sem Exam, $0.05x$ CO attainment through Quiz, $0.05x$ CO attainment through assignments, $0.5x$ CO attainment through student feedback, $0.25x$ CO attainment through Course End Seminar, and $0.8x$ CO attainment level.</p> <p>Measuring PO/PSO Attainment: Attainment of POs and PSOs is computed by using direct and indirect assessment methods.</p> <p>Process for Direct POs, PSOs Assessment: Using CO-PO & CO-PSO matrix for each course, the POs, PSOs attainment for given CO attainment in a course is computed for all the courses. The average of PO attainment in individual Courses is the final direct PO/PSO attainment in the level of 1,2 & 3.</p> <p>Process Indirect Assessment Tools: Alumni feedback, Industrial Feedback, Graduate Exit Feedback.</p>	

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.nbkrist.co.in/Naacaqarworks.php

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

788

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

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/SSS-2022-2023.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 actively promoting research through various initiatives, with the Board of Deans showing keen interest in research outcomes. NBKIRST has a well-documented policy for promotion, approved by the Governing Body, and has implemented new initiatives post-accreditation, including seed money for research, awarding faculty members who publish

papers in indexed journals, conducting workshops on research methodology, offering research internships to final year students, and adhering to plagiarism guidelines.

File Description	Documents
Upload the Minutes of the Governing Council/Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	Nil
Any additional information	No File Uploaded

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	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	No File Uploaded
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

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

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	No File Uploaded
Any additional information	No File Uploaded

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)

0

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	No File Uploaded
List of projects and grant details	No File Uploaded
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

0

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	No File Uploaded

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	View File
Institutional data in Prescribed format	No File Uploaded

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

0

File Description	Documents
Supporting document from Funding Agencies	No File Uploaded
Paste link to funding agencies' website	Nil
Any additional information	No File Uploaded

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 dedicated research and innovation centers in all core departments, funded by the different national level scientific agencies. The institute generates intellectual property (IPR) through products, patents, publications, and human resources. These facilities are used for faculty, staff, and student training, and research findings are shared with other departments through faculty training programs and FDPs. Students at undergraduate level work on projects and dissertations, with submission requiring publication in a journal or conference.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nbkrinst.co.in/EDcell.php

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

the year

8

File Description	Documents
Report of the events	No File Uploaded
List of workshops/seminars conducted during the year	View File
Any additional information	View File

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	E. None of the above
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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	No File Uploaded
Any additional information	No File Uploaded

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	Nil
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	No File Uploaded
Any additional information	No File Uploaded

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

108

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

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

28

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

13

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

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

2

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

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

0

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	No File Uploaded
List of consultants and revenue generated by them	No File Uploaded
Any additional information	No File Uploaded

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	No File Uploaded
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

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

NBKRIST is teaching social responsibility to second-year students through National Service Scheme (NSS) activities such as blood donation, tree planting, aids awareness, and Swachhata Abhiyaan. The Holistic Health Club launched awareness drives through viral short videos, messages, and appeals. The NSS conducted various activities benefited for poor and needy people.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nbkrust.co.in/publications.php

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	No File Uploaded
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

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)

5

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

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

150

File Description	Documents
Reports of the events	View File
Any additional information	View File

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

10

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

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)**9**

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	View File

INFRASTRUCTURE AND LEARNING RESOURCES**4.1 - Physical Facilities**

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

NBKIRST is situated on ** acres of green land, provides a variety of classrooms, laboratories, and computing equipment. With ** class rooms, ** labs, ** computers, and virtual labs, it offers hands-on experience for students and teachers. NBKIRST also offers licensed and open software such as MATLAB, PS CAD, Proteus Design Suite, Office Pro Plus and Turnitin. All departments are Wi-Fi enabled with 24/7 access for students and staff. The Institute also has a state-of-the-art MOOC development center, a MOODLE server, and a NPTEL local chapter for e-learning through MOOC courses. In NBKIRST continuous improvements have been made in physical infrastructure, equipment, library, and digital teaching-learning facilities to meet the needs of the growing student population and market demand for emerging technology areas.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nbkrinst.co.in/index.php

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

NBKIRST is highly dedicated to holistic student development and has a Students Development Cell under the Dean of Students Welfare to promote and organize extracurricular and co-curricular activities. The Institute has a well-developed cricket ground, basketball courts, football/hockey grounds, volleyball courts, and a courtyard ground for sports activities. Indoor sports facilities include table tennis in the canteen area and chess, carom, and skipping ropes in girl's hostel. Outdoor cultural activities are held in open air auditoriums, courtyards, and other spaces with a capacity of 300 persons in the main ground and 200 persons in the courtyard. Yoga activities are conducted on a dedicated yoga platform nearby the open-air gymnasium. The Institute has three gymnasiums, one open air and two indoor, equipped with the latest equipment and machines.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

70

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

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

774.80

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

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

In NBKRIST, Learning Resource Centre has implemented a Web-Based Integrated Library Management System to automate routine activities. The library is equipped with modern technologies, Bar Code Technology, Remote Access facility, Federated Search, and Mobile Apps for Android and iOS users. It offers Intranet OPAC and Web OPAC (Online Public Access Catalogue) facilities for book availability, and offers enhanced user experience through features like MARC 21 Cataloguing, Barcode enabled with RFID integration, and full Unicode support. The library subscribes to over ** e-journals and ** e-books from reputable publishers, and provides access to various e-resources through its NBKRIST e-Library portal. The portal offers 24X7 access to over ** e-resources, a single window search facility, a mobile app for Android and iOS users, news alerts, and a SocioLib feature.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nbkrist.co.in/libweblinks.php

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	View File
Upload any additional information	No File Uploaded

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

8,63,669/-

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

4.2.4 - 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

150

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	No File Uploaded

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

In NBKRIST, IT policies may be classified into following groups: The policy covers IT hardware installation, software installation and licensing, network (internet & internet), email account use, and institute database use.

The policies will be applicable at two levels: NBKRIST aims to ensure secure, monitored access to software, hardware, and internet for all end users, including faculty, students, senior administrators, officers, and staff.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3404	1135

File Description	Documents
Upload any additional information	View File

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	View File
Upload any additional information	View File

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

A. All four of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://202.65.149.252:93/
List of facilities for e-content development (Data Template)	No File Uploaded

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)

775.14

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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 has established systems for monitoring and maintaining infrastructure, libraries, sports facilities, laboratories, classrooms, and seminar halls. Four maintenance cells are developed: Civil Maintenance Cell, Electrical Maintenance Cell, ICT Maintenance Cell, and General Maintenance Cell. Civil Maintenance Cell maintains physical infrastructure, while Electrical Maintenance Cell ensures uninterrupted power supply and maintenance of electrical assets. ICT Maintenance Cell maintains facilities like computers, Wi-Fi, and security systems.

General Maintenance Cell keeps the campus clean and maintains water supply and sewage treatment. Minor work is done by labor and artisans, while major maintenance is done through the Annual Maintenance Contract System. Labs are maintained by lab in-charges and technical staff, while utilization reports are maintained by lab in-charges and HoDs. Class rooms are allocated to departments and cleaned daily, with HoDs and class coordinators monitoring cleanliness.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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**

3080

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

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

58

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

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

File Description	Documents
Link to Institutional website	Nil
Details of capability development and schemes	View File
Any additional information	View File

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

488

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

5.1.5 - The institution 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	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression**5.2.1 - Number of outgoing students who got placement during the year****738**

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education**6**

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

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****0**

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

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	No File Uploaded
Any additional information	No File Uploaded

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

NBKIRST has various student bodies, including BoS, Alumni Cell, and Placement Cell, which manage student clubs and facilitate campus placements. Students are also nominated by department heads as IQAC coordinators, and gender champions are appointed by class coordinators/Heads of Department from each department.

Placement coordinators and volunteers manage placement activities, while student representatives serve as alumni coordinators. Senior students' mentor junior students, and senior students have three first-year students to mentor. Student representatives are also involved in the anti-ragging committee, and class representatives are nominated by class coordinators. Students also serve as office bearers in the innovation and startup cells, and are members of Hostel mess committees.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

20

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

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

NBKIRST Alumni Association, a registered and functional organization, operates from its permanent office at NBKIRST Campus. The alumni chapters are also functional and organizing activities in the chapters.

Alumni sponsor student projects, provide financial support to NGOs and primary/high schools, contribute to alumni events, and donate caution money to the alumni fund. They also initiate scholarships for meritorious and economically weaker students.

Alumni representatives from BOG, IQAC, and BOS are actively involved in curriculum development and strengthening industry interaction. They provide feedback on curriculum, syllabus, and advanced technologies, preparing students for industry-ready roles. They also facilitate practical work and development through discussions, internships, job placements, and organizing industrial visits and interactions. Their knowledge and experience in various organizations contribute to their involvement.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.nbkristaa.org/

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

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

NBKIRST operates under the leadership of Prof. V. Vijaya Kumar Reddy, with Governing Body Members and other faculty members holding significant administrative and academic responsibilities. The roles and responsibilities of each functionary are clearly defined and can be found on the Institute's website. The vision, mission, branding statement, and value framework are in line with the SWOT analysis, departmental vision, and stakeholder feedback.

All the faculty members actively participate in various decision-making bodies within the institution, including the Internal Quality Assurance Cell, Academic Council, Academic Development Cell, Student Development Cell, Board of Studies, Research Committee, Proctorial Board, Internal Audit Committee, Industry-Institute-Interaction Cell, Library Advisory Committee, Women Guidance, Grievances and Redressal Committee, Girls Grievance Cell, Students Grievances Cell, Discipline Committee, Central Purchase Committee, Anti Ragging Committee, Internal Complaint Committee (ICC) for Women, Hostel Admission Committee, and Building Committee.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

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

In NBKRIST, The Director, Deans, HODs, Class - in charges and administrative departments have well defined duties.

Class Coordinators are empowered to decentralize processes, monitor attendance and student leave records, forward student documents and applications, and finalize examination forms. IQAC assigns department-level coordinators to manage various initiatives, including: The IQAC coordinator oversees CO attainment activities through assessment, rubric development, PO/PEO computation, target setting, corrective actions, gap analysis, and question paper analysis using LOTs/HOTs/Bloom's Taxonomy.

The coordinator has clear responsibilities including managing remedial/bridge classes, managing departmental web pages,

managing departmental e-newsletters, enhancing alumni interaction, and managing plagiarism.

The MOODLE coordinator at NBKRIST has successfully utilized MOODLE for teaching, learning, and evaluation activities, addressing student and faculty queries through special sessions and facilitating effective utilization for quizzes, feedbacks, assignments, and midterm evaluations, making it a successful best practice in the institution.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	View File
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

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

NBKRIST has developed a strategic plan to ensure its vision and mission at academic and administrative levels, approved by the Governing Body members and continuously monitored for effective implementation and progress in ensuring quality education.

NBKRIST has a perspective plan for all academic years that includes clear targets for activities such as accreditation status, faculty recruitment, academic reforms, student progression, allocation of development funds for IT infrastructure, laboratories, research, faculty knowledge enhancement, student activities, strengthening of the technical and internal support systems, student support, alumni engagement, industry interaction, and internationalization.

In NBKRIST, the National Education Policy (NEP-2020) has been effectively implemented through clear annual projections and numeric goals, finalized in a July 2021 meeting of the Human Resource Development committee of the instate, attended by

administrative heads of top national institutes.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.nbkrist.co.in/CSE-Departmentnewupdated.php
Upload any additional information	No File Uploaded

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 Governing Body members are responsible for establishing and monitoring effective control and accountability systems to ensure Outcome Based Quality Education in line with the Institute's vision.

In NBKRIST Administrative Management Overview:

- Managed by the Director through a decentralized system for academic, research, development, and extension activities.
- Board of Governors plays a crucial role in the Institute's growth through meetings and visits.
- Responsibilities shared among Dean-Academics, Dean-Students Welfare, Registrar, Exam Controller, Proctor, Department Heads, Deputy Registrar, and AO officer.
- Decentralized mechanism assigns faculty roles for empowerment and stakeholder interaction.
- Organizational chart shows various administrative responsibilities and committees for power delegation and decentralization.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.nbkrist.co.in/orgchart1.php
Upload any additional information	View File
Paste link for additional Information	Nil

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	No File Uploaded
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded
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	
<p>NBKIRST has successfully implemented welfare measures for both teaching and non-teaching staff, providing them with various benefits.</p> <p>NBKIRST offers various schemes in line with AP Govt. norms, including gratuity, EPF, pension, leaves, EL encashment, and university welfare schemes. It also provides promotions, upgradation, and career advancement as per government/institute norms. Faculty and staff are encouraged to attend workshops, conferences, and training programs with leave. The institution also provides seed money for research and awards for outstanding performance in teaching, research, and administration. In-house faculty and staff development programs are conducted, and the institution also conducts pedagogical approaches, finance management systems, MS-Office, office management, waste management, and fire extinguisher training. The institution also has a Grievance Redressal Cell to address faculty and staff grievances.</p>	
File Description	Documents
Upload any additional information	View File
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

10

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	No File Uploaded

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

45

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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.)

93

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

NBKIRST conducts annual audits on financial transactions to ensure financial compliance.

- Maintains copies of budget/notesheets, invoices, bills, and supporting documents.
- Original documents are kept in the finance & accounts section.
- Keeps details of all expenditures/transactions in the accounts office.
- Has a Resident Auditor of Govt. of Madhya Pradesh and a pre-auditing system.
- Post-audit conducted by Office of the Accounts General, Govt. of India.
- Chartered Accountant audits funds received from Management and other government bodies.
- Internal finance committee verifies income and expenditure details.
- Compliance report submitted to the Society through Director.
- Maintains transparency by publishing audited reports on the institute website.

File Description	Documents
Upload any additional information	View File
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	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

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	View File
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)

Post Accreditation Initiatives:

Implementation of Flexible Curriculum and NEP-2020

- **Implementation of value-added courses.**
- **Credit transfer from MOOCs.**

- Multiple mode teaching learning pattern.
- Academic and administrative audits.
- Faculty feedback index for monitoring T-L-E.
- Classroom digitization.
- Innovative research scheme.
- In-house internships and orientation programs.
- Gender-sensitive culture and events.
- Alumni donations.
- Digital studio MOOC development.

Contribution of IQAC in institutionalizing quality practices through continuous monitoring & review. The aim is to enhance the effectiveness of T-L-E and other quality initiatives, quantify departmental performance, and institutionalize practices. The current IMS-based feedback system addresses anomalies in Google forms, MOODLE, and MOODLE, allowing for the transfer of feedback links and the addition of students from different classes.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nbkrinst.co.in/Iqac.php

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 conducts a comprehensive review of all quality practices, including teaching and learning, and uploads various reports on its website.

NBKIRST conducts annual reviews of academic practices, one by an internal committee and the other by external experts, presented in the IQAC, with review parameters focusing on record availability, teaching practices, and quality improvement initiatives.

The IQAC is responsible for quality practices such as the development and implementation of a flexible curriculum, slow-fast learner mechanism, and remedial class mechanisms. Regular reports and compliance are presented in quarterly meetings, and a six-month monitoring through the Administrative Efficiency Index (AEI) is conducted to ensure compliance.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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)	A. Any 4 or all of the above
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File Description	Documents
Paste the web link of annual reports of the Institution	Nil
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

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

NBKIRST is renowned for its academic excellence and unique culture, has established the Girls Grievance Cell to address concerns specific to female students on campus.

The primary objectives of the Girls Grievance Cell encompass: Establishing and maintaining a secure environment. Fostering an atmosphere that advocates equality and gender justice. Providing appropriate psychological, emotional, and physical support through counseling, security measures, and other

forms of assistance. Emphasizing the significance of health and hygiene. Conducting awareness programs to underscore women's rights.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

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	A. Any 4 or All of the above
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File Description	Documents
Geotagged Photographs	View File
Any other relevant information	No File Uploaded

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)

NBKRT has implemented a two-bin system for solid waste management, separating biodegradable and non-biodegradable waste. Biodegradable waste is disposed of in a compost plant, while non-biodegradable waste is sold for recycling.

The Central Pollution Control Board of India registers e-waste from colleges for safe disposal through registered recyclers.

NBKRI has implemented a recycling system where biodegradable solid waste is collected and composted to produce organic fertilizers, which enhance soil nutrition. The institute also educates campus residents about the importance of waste recycling and promotes sustainable practices.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	A. Any 4 or all of the above
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File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

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	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

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

<p>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities 	<p>E. None of the above</p>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

<p>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 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.</p>	<p>A. Any 4 or all of the above</p>

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

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).

NBKIRST is dedicated to creating an inclusive environment that values harmony and tolerance towards diversity, including linguistic, cultural, regional, and socioeconomic aspects. Officials, including grievance redressal cells, are responsible for maintaining an inclusive workplace where everyone is treated equally. To promote tolerance, they organize speeches, National and International Days, Events, Festivals, and cultural activities among stakeholders.

The faculty includes Director, Dean Academics, Dean Student Welfare, Head of Departments/Coordinators, Professor in charge of commemorative days, NSS Officers and Departmental Coordinators, Student Development Cell, Equity and Cultural Coordinators, Coordinator Ek Bharat Shreshtha Bharat Programme, Gender Sensitization Committee, Sports Officer, Club Faculty Coordinators, and Class Coordinators.

NBKIRST enforces a code of conduct for faculty, staff, and students, promoting inclusivity and harmony through mandatory courses and various events and activities.

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

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

NBKIRST focuses on providing comprehensive orientation programs for faculty and students, in line with AICTE guidelines.

The annual Independence Day and Republic Day celebrations in universities emphasize national pride through flag hoisting, parades, cultural events, and patriotic speeches. The Director's address on Republic Day fosters patriotism. Activities organized by students, faculty, and clubs aim to raise campus community awareness of constitutional obligations and civic responsibilities.

The Department of Humanities is enhancing academic thoroughness through the "Indian Constitution and Traditional Knowledge" course, which offers theoretical insights through classes, assignments, and Moodle quizzes, promoting a vibrant academic environment, cultural traditions, and constitutional awareness among students and faculty.

The Institute has launched a Massive Open Online Course (MOOC) on Indian Constitution and traditional Knowledge to promote constitutional awareness, values, rights, duties, and responsibilities among stakeholders.

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

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

A. All of the above

other staff Annual awareness programmes on the Code of Conduct are organized

File Description	Documents
Code of Ethics - policy document	No File Uploaded
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	<u>View File</u>
Any other relevant information	No File Uploaded

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

NBKIRST celebrates various national and international events and festivals to promote cultural understanding, community involvement, and patriotism. Faculty Coordinators organize celebrations for significant days like Global Iodine Deficiency Day, International Science Week Webinar, International Tolerance Day, Human Rights Day, National Energy Conservation Day, and National Cleanliness Day.

The Institute celebrates various local, state level and national level festivals for promoting inclusivity and vibrancy on campus. Independence Day and Republic Day are marked with flag-hoisting ceremonies.

NBKIRST actively participates in celebrating national and international days like Gandhi Jayanti, International Week for Science, National Youth Day, International Human Rights Day, International Yoga Day, and Voters Day, promoting seminars, expert talks, and engaging activities.

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

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 PRACTICE - 1:

Title of the practice: Entrepreneurship Development Cell

1. Objectives of the Practice:

1. To create awareness on Entrepreneurships among young students
2. To facilitate the development of Entrepreneurial Skills among students of Science & Technology
3. To establish a modern category of Sustainable Technology - Competent Entrepreneurs
4. To provide complete technical and other services to budding entrepreneurs
5. To organize camps, seminars, symposia, workshops, industrial visits, conferences and other development programs

BEST PRACTICE - 2:

1. Title of the Practice: Industry Institute Interaction.

2. The objectives:

To bridge the gap between industrial opportunities and academic results by promoting collaboration with industry, raising student awareness of social issues, and encouraging industry training for necessary exposure and experience.

To utilize existing resources like laboratories to identify

industry needs and provide solutions. Fine-tune curriculum to meet industry needs, increase marketable workforce availability by improving student skills, organize workshops, seminars, conferences, and industrial visits.

To encourage collaboration between industry professionals and students to create curricula.

File Description	Documents
Best practices in the Institutional website	https://www.nbkrist.co.in/Naacaqarworks.php
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)

- Augmentation of introducing new skill-oriented courses in view of improving campus recruitments of the students
- Encouraging the faculty to register for FDPs on research methodologies and to propose more number of scientific projects for various national and state level agencies
- Necessary measures need to plan to conduct academic audit per each semester

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

7.3.2 - Plan of action for the next academic year

- NBKIRST aims to conduct a greater number of skill-oriented programs and thus augment placement recruitment.
- Motivate the students towards higher studies and encourage them to participate in entrepreneurship, innovation, and incubation activities.
- Encourage the faculty members to publish papers in SCI

and SCOPUS journals and submit more proposals to funded agencies.

- Conduct more number of programs under the Entrepreneur Development Cell and the Industry Institute Relation Cell.
- Encourage the students to register for certified MOOC courses and plan to conduct online classes for slow learners.