



YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution		The NorthCap University
• Name of the Head of the institution		Prof. Nupur Prakash
• Designation		Vice Chancellor
• Does the institution function from its own campus?		Yes
• Phone no./Alternate phone no.		01244195200
• Mobile no		9910000918
• Registered e-mail		vcoffice@ncuindia.edu
• Alternate e-mail address		nupurprakash@ncuindia.edu
• City/Town		Gurugram
• State/UT		Haryana
• Pin Code		122017
2.Institutional status		
• University		Private
• Type of Institution		Co-education
• Location		Urban
• Name of the IQAC Co-ordinator/Director		Prof. C.B. Gupta

• Phone no./Alternate phone no	01244195200
• Mobile	9414082921
• IQAC e-mail address	cbgupta@ncuindia.edu
• Alternate Email address	pankajagarwal@ncuindia.edu
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.ncuindia.edu/wp-content/uploads/2021/06/aqar_report-2019-20.pdf
4.Whether Academic Calendar prepared during the year?	Yes

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B	2.72	2016	25/05/2016	24/05/2022

6.Date of Establishment of IQAC	08/08/2011
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7.Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT /ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Nil	Nil	Nil	Nil	Nil

8.Whether composition of IQAC as per latest NAAC guidelines	Yes
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- Upload latest notification of formation of IQAC

[View File](#)

9.No. of IQAC meetings held during the year	02
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- The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report)

Yes

10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	Yes
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- If yes, mention the amount

125000

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

IQAC has been instrumental in suggesting/implementing the following quality initiatives at NCU during 2020-21: 1. Introduction of Community Service as compulsory in curriculum of all programs. NCU has taken an initiative towards holistic development of students for introducing Community Service as compulsory component in all UG/ PG Curriculum. This is in line with the NEP-2020 and also UGC guidelines on fostering social

responsibility issued in Jan 2020. All the schemes have been modified to include this component. Under the scheme, each student is required to do 140 Hours of community service per year.

2. IQAC has been instrumental in suggesting/implementing the procedure for CO, PO and PSO mapping and their attainment for the university. All the departments have revised their COs, POs, PSOs and PEOs as per the inputs discussed during the 13th IQAC meeting. Approval of the COs, PSO & PEOs is recorded by the IQAC. Revised contents are available on NCU website. A systematic procedure for CO-PO attainment is in place across all the departments.

3. During 13th IQAC meeting, members stressed on enhancing the effectiveness of teaching learning by embedding increased practical components in relevant courses as per the latest trends in the industry for improving the student participation. All the courses at NCU have desired practical components as per the current industry trends. Increased hours have been allocated to Lab component in the time table. Development of new state-of-the-art labs like i-MAC lab, high performance computing lab, cyber security lab etc to support practical learning across all the departments.

4. IQAC suggested to introduce a well-defined IPR Policy to motivate the faculty members for applying & publication of patents. Well-defined IPR policy is in place and available on NCU website. There has been an increase in number of patents filed & published during 2020-21. IQAC suggested that NCU should have a well-defined policy for promotion of research activities. NCU has well-defined & fully functional Research, Development & Industry Liaison (RDIL) cell in place (<https://www.ncuindia.edu/rdil/>). Policy for promotion of research is available on NCU website.

5. A study on the plight of migrant laborer's during Covid times was conducted by School of Law for which funding of Rs.75000/- was received from ICSSR, Ministry of Education, Govt. of India. A program on gender sensitization and mental health was conducted by School of Management for which funding of Rs.50000/- was received from National Commission for Women, Govt. of India under the aegis of IQAC.

12. Plan of action chalked out by the IQAC in 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
Creating world class infrastructure with focus on digitization & virtualizations.	Initiatives for digital transformation through induction of Advance LMS system CANVAS. Development of new labs including i-MAC lab, high performance computing, cyber security labs etc. Creation of new smart class room. Integration of new ERP system CAMU is in process.
To be recognized among top private universities of India by attaining higher ranks in NAAC, NIRF, IIC, NBA, ARRIA, QS-Star etc.	NCU has been making continuous efforts towards various quality enhancement measures. Outcomes - NIRF ranking 2021 has placed the University at 97th position in Engineering category and in the band of 151- 200, in University Category. - University has achieved 4-Star in Institution's Innovation Council (IIC) rating for the year 2020-21 - Overall QS 4 stars rating and a perfect 5-star rating in Teaching, Employability, Online learning, Academic development, and Inclusiveness from Quacquarelli

	<p>Symonds (QS), the global rating agency in 2021. - Atal Ranking of Institutions on Innovative Achievement (ARIIA 2021) - NCU features among Top 30 Best Performer universities in the category of University & Deemed to be University of our country. - The university has won 'One Green One District Champion Award' for clean and green surroundings by Ministry of Higher Education in 2021.</p>
<p>Complete automation of all academic & non-academic processes at NCU.</p>	<p>Fully functional Enterprise Resource Planning (ERP) is in place for the student's registration, online fee deposit, admit card generation, attendance monitoring and result generation. - An online attendance marking system (biometric/card based) is effectively used in the university for both the faculty and students. - Automation of Examination System through Mercel-Mettl is in place. - Advanced LMS system 'CANVAS' has been introduced.</p>
<p>Creating an USP through various center of Excellences, Specialization programs, Industry-academia collaborations & innovation culture.</p>	<p>Following new specializations were introduced in 2020-21 - BCA with specialization in Web application development. - BCA with specialization in Animation & Gaming. - B.Sc with specialization in Data Science. - BBA with specialization in Business Analytics. - BBA with specialization in Digital Marketing NCU is also offering Specialization in B.Tech programmes in the Emerging areas like Artificial Intelligence, Cyber Security, Block Chain Technology, AR/VR and Gaming technology, Data Science, Full stack Development and Robotics and Automation. Fully functional and dedicated facility to support incubation & start-up activities is in place. Well defined innovation cell is also in place. In talks with Arizona State university for academic collaboration & exchange programs. Existing collaborations with ISRO, Michigan Technological University USA, Providence University Taiwan, University of Dayton Ohio USA, University Technology Malaysia (UTM), Malaysia are also functional.</p>

<p>13. Whether the AQAR was placed before statutory body?</p>	<p>Yes</p>
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- Name of the statutory body

Name	Date of meeting(s)
<p>Academic Council</p>	<p>08/05/2021</p>

<p>14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?</p>	<p>No</p>
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<p>15. Whether institutional data submitted to AISHE</p>
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Year	Date of Submission
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Extended Profile

1. Programme

1.1 Number of programmes offered during the year:	21
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1.2 Number of departments offering academic programmes	7
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2. Student

2.1 Number of students during the year	2753
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2.2 Number of outgoing / final year students during the year:	582
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2.3 Number of students appeared in the University examination during the year	2650
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2.4 Number of revaluation applications during the year	0
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3. Academic

3.1 Number of courses in all Programmes during the year	390
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3.2 Number of full time teachers during the year	115
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3.3 Number of sanctioned posts during the year	159
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4. Institution

4.1 Number of eligible applications received for admissions to all the Programmes during the year	3238
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4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	401
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4.3 Total number of classrooms and seminar halls	89
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4.4	890
Total number of computers in the campus for academic purpose	
4.5	3501.65
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 is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

In line with the vision "To be known globally for learning innovations, academic excellence and socially relevant research outcomes" the NorthCap University takes every step to improve its academic standards. This involves aligning and upgrading academic plans as per changing technology and employment scenario. Curriculum development is a regular process at NCU and is done keeping in view the feedback and suggestions received from various stakeholders like students, alumni, faculty, industry experts, AICTE/UGC/BCI/Haryana Govt. guidelines and other stakeholders.

The faculty, Board of Studies (BOS), Academic Advisory Board (AAB) and Academic Council Committee (ACC) are responsible for the curriculum design, improvement and implementation. These bodies include faculties from various departments, HOD's, external experts from academic institutes and industry.

The design/improvement process of the curriculum starts with the analysis of feedback reports from various stakeholders including regulatory guidelines, market analysis, technological trends, general characteristics of the targeted population and employers. The major points of feedback are discussed in the various committees such as Department Faculty Meetings, Academic and Industrial experts and the action points are documented in BOS, AAB and ACC reports. The inputs for design are typically obtained from:

- Stakeholder's feedback
- Success/failure reports of programmes/courses
- Past experience/Market trends/Employers
- Changes in regulatory guidelines

The feedback reports are analyzed and reviews are conducted for design/changes of curriculum through following steps:

- Design of curriculum by Department faculty meetings
- Design and approval by BOS
- Approval by AAB and ACC
- Ratification and approval by BOM (Board of Management)

The analysis of feedback reports and design/change of curriculum results into a document - "Syllabi and Course Outcome" which includes:

- Programme Educational Objectives (PEO's), Programme Specific Outcomes (PSO's) and Programme Outcomes (PO's)
- Detailed scheme of courses with syllabus including CO's

The curriculum design integrates the academic knowledge, interdisciplinary skills, analytical skills, personality development, social and ethical values for all the students of university. Curriculum design is carried out with focus on local, regional, national and global needs.

Local, Regional and National Needs

- NCU has strong bonding with local and regional industries which are part of curriculum design (contextual learning, live projects, guest lectures/workshops and field visits).
- Development of trained workforce for regional and national corporate houses by integrating skill based training in curriculum.
- Integration of social work components through various societies and clubs.
- Integration of Human Values, Professional Ethics and Environmental Studies courses as per national and regional interest.
- Vice Chancellor fund for innovative and socially relevant projects.

Global and International Needs

- MoU's and activities with MNC giants are integrated within the curriculum.
- Courses such as Foreign Languages, Effective Communication, International Law, Cybersecurity, etc.provides a global perspective.
- Holistic development by integrating self-learning modules (MOOCs, Virtual Labs, QEEE etc.) in curriculum.
- In line with the global scenario, integration of courses such as Big Data, IOT, AI, Virtual Reality and Biomechanics.
- University offers Global signature courses/certifications in collaboration with Arizona State University, USA.

File Description	Documents
Upload relevant supporting document	View File

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

14

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

1.1.3.1 - Number of courses having focus on employability/ entrepreneurship/ skill development during the year

355

File Description	Documents
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Upload relevant supporting document	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

114

File Description	Documents
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Upload relevant supporting document	View File

1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year

1

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.3 - Curriculum Enrichment

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

The institute integrates cross cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum. The inputs from various stakeholders (Regulatory Bodies, Alumni, Students, Industrial partners and Academicians) are taken into account for the revision of curriculum and to incorporate the appropriate courses.

Professional Ethics and Human Values: University understands the importance of ethics and values, and integrates the course on Human Values and Professional Ethics into the curriculum; which is offered to all the undergraduate students. Professional/Research Ethics is a compulsory course for postgraduate graduate and doctoral programmes. Curriculum integrates courses which emphasize human values and societal issues such as Industrial Relations and Labour Law, Theory of Society, Human Rights, Labour Laws, etc. A course on Innovative thinking and Positivity is offered by the Centre for Languages Learning (CLL). To enhance the emotional quotient of students and to imbibe spiritualism, NCU has established the Thought Lab (Raj yoga Brahma Kumaris inspired) on campus, where regular visits by students and faculty helps them to manage emotions in positive ways to relieve stress, to empathize with others and to promote meditative behaviour.

The celebration of National festivals and events which focuses on helping the society and donation campaigns helps in promoting the human values among students. Apart from the curriculum, various social service schemes such as NSS, Yukti, ROTARACT and Legal Aid Clinic inculcate the human values and service learning among students.

Gender: The NCU promotes and focuses on gender equality and has a healthy number of female faculty ratio. The curriculum integrates courses on Gender Equality and Sensitization to create awareness among students. The courses on Gender Justice and feminist jurisprudence are offered for undergraduate students as a course. Special guest lectures and seminars are organized for the students and faculties on gender studies, human rights, gender diversity and inclusion at the workplace and gender justice in the university. Apart from internal complaints committee for dealing with sexual harassment at workplace and institute has well defined policies on women safety. The extracurricular activities carried out by the students such as Gender awareness march on International Women's Day, nukkad nataks on gender equality and socially relevant themes "Beti Bachao Beti Padhao" are encouraged and hosted in the university throughout the year.

Environment and Sustainability: The curricula integrate the compulsory Environmental Studies course for all the undergraduate students. The course highlights the major issues faced globally such as water scarcity, pollution, environmental issues, climate change, sustainable technologies, etc. Apart from the environmental studies course, the university offers many courses on current issues such as Disaster Management, Energy Law, Renewable Energy Sources and Waste management. Further, the curriculum focuses on sustainability and offers Corporate Governance and Sustainability, Environmental Economics, Economic Growth and Development and Supply Chain Management courses. NCU has been ranked among the top five cleanest Universities in the country (category University Non-Residential). The award has been given for Maintaining, Promoting and Encouraging the culture of "Swachhta" in the Higher Educational Institutions in the country.

File Description	Documents
Upload relevant supporting document	View File

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

1

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.3.3 - Total number of students enrolled in the courses under 1.3.2 above

1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year

224

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.3.4 - Number of students undertaking field projects / research projects / internships during the year

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

1.4 - Feedback System

1.4.1 - Structured feedback for design and review of syllabus - semester wise / is received from Students Teachers Employers Alumni

- All 4 of the above

File Description	Documents
Upload relevant supporting document	View File

1.4.2 - Feedback processes of the institution may be classified as follows

- Feedback collected, analysed and action taken and feedback available on website

File Description	Documents
Upload relevant supporting document	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Demand Ratio

2.1.1.1 - Number of seats available during the year

810

File Description	Documents
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Upload relevant supporting document	View File

2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

143

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.2 - Catering to Student Diversity

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

'Students First' is the motto and driving force behind all the activities carried out in the institution for improving the teaching-learning process. All the admitted students mandatorily go through the rigorous orientation and induction programmes, which helps in understanding the learning levels of students. To capture the strength of the students and

compliment the learning process; institute implemented student e-portfolio system.

After the minor examinations, the learning levels of students are evaluated. Based upon the performance (CGPA and attainment of CO levels) students are categorized as advanced (CGPA>8.5) and slow learners (CGPA<6.0). Students are constantly motivated to meet the rigors of academics and are mentored by a strong and progressive team of teachers and peer tutors. A lot of steps have been enforced to access and uplift the teaching and learning process for students such as implementation of Choice based credit system (CBCS), Value Added Courses (VAC), e-portfolio management and skill-based modules. University takes care of each and every student and based on the inputs obtained various strategies are implemented for slow and advanced learners of the University.

Special programmes for advanced learners:

- The course templates highlight the advanced study components, certification courses and value-added experiments.
- Provision of self-paced learning through various MOOC programmes which helps advanced learners to devote more time on projects and industrial engagement activities.
- Students are encouraged to apply for live industrial internships and projects.
- The academia-industry MoU's and partnerships further boosts their career opportunities.
- The Master Jagannath Centre for Excellence and Incubation (MJCEI) provides a platform where advanced learners can carry out innovative projects and incubate their startups.
- The advanced learners are motivated to grab funding opportunities through the Vice-Chancellor Innovation Fund (VCIF) scheme.
- Departments offer several VAC for all the students after office hours, where students can strengthen their skill sets.
- Faculty offers support and guidance for carrying out projects, Inter-university competitions, research publications and attending conferences/workshops.
- University provides access to online e-journals, articles and repository systems.
- University recognizes the advanced learners and various scholarships are available where monetary benefits are provided to the toppers and list is displayed for stakeholders' awareness in the University corridors.
- Special fast track modules and exemption from attendance criteria for pre-placed students.

Special programmes for slow learners:

- The faculty engages slow learners with compensatory/remedial classes and tutorials.
- Peer tutor scheme is available which allows students to learn from their peers in one-to-one interaction classes.
- CBCS bridges the gap between the student's interest and academics. Various interdepartmental courses are offered as open elective courses.
- Compulsory mentoring carried out by faculties allows better understanding of academic challenges, achievements and interests of

students. The interests can be nurtured through General Proficiency courses, where slow learners are encouraged to take certain skill enhancement courses which has a positive impact on their employability.

- Tinkering and makerspace lab also focus on skill-based VACs.
- Provision of summer classes for final year slow learner students.

File Description	Documents
Upload relevant supporting document	View File
Link For Additional Information	https://ncuindia.edu/igac/naac/Criteria%20/2.2.1%20Final%20upload%20document.pdf

2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
2753	115

File Description	Documents
Upload relevant supporting document	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

The University plays a crucial role in providing the best education practices to the students and preparing them for a sound professional career. Main focus of the University is holistic development of the students for enhancing employability and deployability, to develop creative thinking, problem solving and lifelong learning skills. To achieve these goals various steps have been taken by the University and some of them are listed below:

- The university focuses on outcome-based education, where learning outcomes are evaluated for continuous improvement.
- Depending on the results of course outcomes, course coordinators adopt various teaching pedagogies which involve student centric methods such as group discussions, case studies, experiential learning through hands on training modules and emphasis on practical work. These pedagogies help in achieving the attainment levels and provide better outcomes in terms of student's employability.
- Some of the experiential learning methods adopted by the university are:

1. More project-based learning introduced and credits for project work and student industry internship increased.
2. Industry internships are mandatory where students get 'hands on' experience and work on live industry projects.
3. Contextual learning modules focusing on experiential learning such as field/industrial visits.
4. Introduction of skill enhancement-based modules/workshops through value added courses under tinkering and makerspace labs.
5. Introduction of minor projects in the curriculum where young minds can play with the technology and helps in boosting the culture of

innovation and start-ups.

- Initiatives for participative learning includes:

1. To enhance participative learning, faculty uses various teaching pedagogies in the interest of students such as activity-based learning, group discussions, quizzes, seminars, workshops, MOOT Courts and case studies in various courses.
2. Design thinking modules have been introduced into the curriculum for enhancing participative learning and problem-solving methodologies for students.
3. General Proficiency course is compulsory to develop and recognize out of classroom development of students through co-curricular, extracurricular activities and participative learning methods.
4. School of Professional Attachment carries out various activities for boosting the participative learning through group discussions, mock tests, Pre-Placement Interviews, and alumni interactions.
5. Master Jagannath Centre for Excellence and Incubation and Vice Chancellor Innovation Fund help students to float projects and incubate ideas through industry participation and University augmentation.

- Initiatives for inculcating the problem-solving culture among the students includes:

1. Integration of courses on problem solving, design thinking, creative writing, entrepreneurship and research methodology in the curriculum.
2. MOOC's have been made mandatory in all the programmes to develop self-directed lifelong learning skills. Virtual Labs, QEEE and Spoken Tutorial programmes have been integrated into the curriculum.
3. Integration of "out of classroom learning" through various professional clubs and societies within the curriculum to encourage creativity and innovation among students.
4. University has signed various MoU's with Industry and Academia giants such as Daikin, MACE, MAGES, etc. where students attend workshops/lectures and learn to solve problems from experts and industrial mentors.
5. Students are encouraged to participate in various hackathons, Technovation and industry based competitions.

File Description	Documents
Upload relevant supporting document	View File

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

The institutes integrate the utilization of various Information and Communication Tools (ICT) which helps both the faculties and students for making the teaching and learning process more effective and fruitful. Some of the initiatives taken by NCU to make teaching learning more effective with ICT tools are:

- The university mandates all the faculties to use Learning Management System (LMS) for their respective courses, so that students can access the notes, tutorials, PPTs, videos and supplementary study material from anywhere and at any time. This helps the students to maintain self paced study.

- ICT enabled classroom teaching is carried out by faculty members which involves use of LMS, Audio/Video devices, e-learning modules, online quizzes and assignments. All the classrooms of the university are well equipped with audio and video devices which helps in efficient content delivery. The A/V tools enhance the understanding of the subject in a better way through videos, animations and case studies.
- University motivates faculty and students to use an online digital library tool (LIBSYS 10) for browsing, online booking and issuing of books. Students can access various ebooks, journals, e-journals and digital content from publishers through online mode. University offers access to various online MOOC platforms such as Coursera, Swayam and NPTEL for students self-directed learning.
- Enterprise Resource Planning (ERP) is used for the student's registration, online fee deposit, admit card generation, attendance monitoring and result generation.
- An online attendance marking system (biometric/card based) is effectively used in the university for both the faculty and students.
- University has recently upgraded the ICT tools for online conduction, AI based procting and evaluation of examinations.
- University has well equipped labs for effective learning such as CAD Labs, computer labs, Emerging Technology Lab (equipped with various audio video, gaming and Virtual/Augmented reality tools. Labs are upgraded with advanced softwares such as Ansys, Solidworks and Matlab.
- University has a well equipped auditorium, conference room and seminar hall for hosting various events, invited talks, seminars and conferences.
- University offers a recording studio where faculties can develop their e-contents for various MOOC platforms.
- Security cameras are deployed throughout the campus for higher standards of monitoring and surveillance.

The efficient utilization of ICT tools improves the teaching learning process and with the self paced learning, students can focus more on projects and internships. Some of the outcomes of efficient utilization of ICT tools are:

- Development of inhouse softwares and ICT tools such as auditorium booking system and E-portfolio management system.
- Students developed a self checkout retail system with industrial partner Delta Electronics and was awarded 2nd prize in an International project competition held in China.

File Description	Documents
Upload relevant supporting document	View File

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

2.3.3.1 - Number of mentors

100

File Description	Documents
Upload relevant supporting document	View File

2.4 - Teacher Profile and Quality

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

115

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.4.2 - Total Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year

80

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.4.3 - Total teaching experience of full time teachers in the same institution during the year

2.4.3.1 - Total experience of full-time teachers

651

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year

7

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

Nil

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

15

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year

0

File Description	Documents
Upload relevant supporting document	View File

2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

Examination procedures and processes at The NorthCap University are well IT integrated and are updated on a regular basis. The efficient utilization of ERP is well integrated for the continuous evaluation system. The different evaluation schemes where different types of assessments spread throughout the semester are efficiently handled through ERP. The processes related to the conduct of examinations, declaration of results and award of degrees are controlled and monitored by the Central Examination Department of the Institute together with Faculty and staff. Various reforms have been undertaken in the last five years that have made a positive impact on examination management:

1. Centralized conduct of Internal and End-Semester Examinations: Seating and invigilation for internal class tests and end-semester examinations are organized centrally at the Institute level. This has led to optimal utilization of physical as well as manpower resources, increased vigilance and smooth conduct of the examinations.

2. Automation of Examination System: A Course Management System has been implemented with the following features:

- Enrolment and registration of students
- Verification of students and approval
- Online admit card downloading facility
- Marks of different types of evaluation components
- Support for Grading and percentage-based evaluation
- Compilation and Declaration of Results
- Printing of detailed grade sheets, degrees, and transcripts

3. Online Examinations: University has well established IT tools for conducting the online AI-based proctored examinations.

4. Online Viva-Voce Examination: Provision has been made to conduct online viva-voce examinations through video-conferencing.

5. ERP integration and reforms in the examination procedures and processes

Examination procedure has been completely automated using third party IT software.

Examination Procedures and IT Integration:

1. Course coordinator for the particular subject is created after student registration.

2. Coordinator provides a marks scheme for each and every subject.

3. Faculty uploads theory, practical & minor, major examination marks of each subject.

4. Students can view their internal marks on ERP.

5. For appearing in the major examination there is 70% attendance criteria which is automatically (through biometric punching) integrated with the ERP system.

6. Admit card for particular department/Schools generated on the basis of detained (short attendance) list.

7. After exams faculty upload the continuous evaluation marks and major marks on the ERP system.

8. University level committee is responsible for the moderation of marks as per SOP and moderation is an inbuilt function in ERP system.

9. ERP provides in depth result analysis reports for future improvement.

8. Marks Summary of all semesters (DGS) or a particular semester (Transcript) is available for each student on ERP.

9. Reports section of ERP can generate reports such as:

- Result Summary (Result verification)
- Reappear Summary
- Admit Card

10. Parental Information System (PIS) is integrated with ERP for providing real time information to parents.

Dedicated ERP cell is available in the University and works continuously on the improvement of the User interface and thus making the system more efficient and user friendly.

File Description	Documents
Upload relevant supporting document	View File

2.5.4 - Status of automation of Examination division along with approved Examination Manual

A. 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

2.6 - Student Performance and Learning Outcomes

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

The NorthCap University since its inception has focused on the Outcome Based Education (OBE). To ensure the implementation of OBE following measures have been adopted:

- All the programmes of the institute have well defined Programme Specific Outcomes (PSOs), Programme Educational Objectives (PEOs) and Programme Outcomes (POs) which are displayed on the website and departmental notice boards.
- All the courses have well defined Course Outcomes (COs) which are regularly analyzed to achieve the OBE and available on course templates.
- All the stakeholders are made aware of PSOs, PEOs, POs and COs through various available modes such as website, noticeboards, students handbook etc.

The process for defining the PSOs, PEOs and POs is:

- As per the vision and mission of the institute, the head of the institute along with head of departments and senior faculty members defines the outcomes.
- These outcomes are shared with all the stakeholders to obtain feedback and changes required.
- The defined outcomes are presented in the BOS for further action. The final approval of the revised outcomes is obtained in the Academic Council Committee (ACC) where head of departments present the outcomes in front of various stakeholders.
- The outcomes are finally presented and approved in the Board of Management meeting.

The process for defining the COs is:

- The senior faculty/subject expert prepares the Course Outcomes for the courses in aligned with the POs.
- The COs are presented in the departmental faculty meetings in front of all the faculty members for feedback.
- The revised COs are presented in the Board of Studies meeting for final approval.

After finalizing the PSOs, PEOs, POs and COs, approved outcomes are displayed for all the stakeholders through the following modes:

- Website
- Departmental Noticeboards
- ERP
- Course templates
- Orientation Programmes

The detailed Vision and Mission, Programme Outcomes (PO), Programme Specific Outcomes (PSO), Schemes and Syllabus with Course Outcomes (CO) for all the offered courses by the University are displayed in the university website (<https://www.ncuindia.edu>) under academics tab.

The department wise complete data highlighting the courses, their importance, thrust research areas, success stories of alumni, placement data, faculty profile, and all other academic related data is available on the university website for public domain. Some of the links for the departments are as follows:

Department of Computer Science and Engineering (CSE):

<https://www.ncuindia.edu/schools/computer-science-engineering/?school=1288>

CSE program highlights: <https://www.ncuindia.edu/schools/computer-science-engineering/program-highlights/?school=1288>

Mechanical Engineering: Department Highlights: <https://www.ncuindia.edu/schools/mechanical-engineering/program-highlights/?school=1415>

Centre for Languages Learning (CLL) highlights: <https://www.ncuindia.edu/schools/centre-for-languages-and-learning/?school=1515>

School of Law (SOL) highlights: <https://www.ncuindia.edu/schools/school-of-law/?school=1593>

File Description	Documents
Upload relevant supporting document	View File

2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

To ensure the effective OBE, institute regularly monitors and analyze the level of POs, PSOs and COs. All the courses of the university are linked with certain Course Outcomes (COs), which are further in line with the PO's and respond to the PSOs. Following method is adopted for the attainment analysis:

- The institute follows a standard process to access the attainment levels of outcomes through the devised mechanism of direct and indirect measurements:

Direct measurement (Course Analysis):

- Examinations
- Assignments
- Projects
- Lab work evaluation and any other evaluation parameters for assessment of courses

Indirect measurement (through surveys, questioners, placements etc.)

- Stakeholders Feedback Reports
- Graduating students survey
- Employer survey
- Alumni surveys

The step-wise procedure used for direct measurement of outcomes is:

Step 1

There are well defined COs which are mapped with the questions and marks within the examination question papers.

Step 2

For every course outcome, performance indicators are defined with the targets.

Step 3

All semester attainment levels of various COs are measured by the course

coordinators through direct assessments. The assessment levels are further coded and linked to the program outcomes.

Step 4

The departmental assessment committee analyzes the collected results. The attainment levels are checked against the target values and recommendations are given on the basis of attainment levels.

Step 5

The POs attainment is again coded and mapped with the PSOs.

Step 6

If COs, POs and PSOs mapping does not meet the required targets then the departmental faculty board committee recommends the improvements in curriculum, content delivery methods and course outcomes. This also acts as the feedback for the process of continuous improvement.

Step 7

If COs, POs and PSOs are met then new targets are set for continuous improvements in the outcome-based education system.

A case study on CO-PO-PSO mapping is attached in the additional information for better understanding the process of attainment of various outcomes.

For indirect measurements, standard survey/feedback forms are used to analyze and attain the outcomes. The attached case study provides the example of indirect measurement.

File Description	Documents
Upload relevant supporting document	View File

2.6.3 - Number of students passed during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

582

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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 web link)

https://drive.google.com/file/d/1Kp73FX-qzfb9ItSY_FMndltNXAaTgIEN/view?usp=drivesdk

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

Yes

The NorthCap University strives hard to be known in cutting edge research areas of science and technology particularly social areas. The university has taken many initiatives for promotion of research. These efforts include but are not limited to:

1) All facilities at the university, with special attention to research facilities, are updated regularly. This is made possible through input from its stakeholders and through discussions in various university level committees where the input from renowned academicians and industry persons is recorded for implementation. As a demonstration some of the recently established research facilities at the NorthCap University are:

1. Centre of Excellence for Data Sciences.

2. Design Centre.

3. Tinkering lab.

4. The NorthCap Techno Business Incubation Centre (erstwhile Master Jagannath Centre for Excellence & Incubation)

5. NavIC Lab (established in collaboration with ISRO)

6. High-end software like Ansys, solidworks and MATLAB 2021

7. High end computing labs including iMAC, High Performance Computing ,Machine Learning and Advanced Programming Lab.

8. Robotics Lab.

2. A dedicated Central Research Facility (CRF) for the benefit of faculty and students has been developed by the university. Details of equipment and user's manual for the Central Research Facility is provided in the following link

<https://www.ncuindia.edu/wp-content/uploads/2020/11/List-of-equipments-and-User-Charges-1.pdf>

3.The NorthCap University ensures that its faculty members and students follow high standards of ethical and honest conduct for all their research related activities. Any violation of ethical standards is taken very seriously and is dealt as per the 'Zero Tolerance Policy' of the university. NCU has purchased and provided free access of 'Turnitin' software to all its faculty members to ensure plagiarism checks.

4.Well-defined Research Policy PhD rules and regulations, and their implementation overseen by Board of Doctoral Research (BDR) headed by Pro-Chancellor/Vice Chancellor and Departmental Research Committees (DRCs), ensures highest standard of Doctoral research at the NorthCap University.

5. The Research Development and Industrial Liaison (RDIL) office established at the university facilitates and monitors research activities of the university. Updated policies and procedures developed by RDIL office are uploaded on the following link:

<https://www.ncuindia.edu/rdil/>

6. The university facilitates mentoring and guidance of faculty members from renowned experts from reputed academic institutions and leading industries.

7. In order to incentivise faculty members for better performance in research, a systematic performance based 360 degree appraisal system has been implemented by the university.

8. In order to inculcate research aptitude amongst its PG students, Research Methodology course has been made mandatory for all PG programmes.

9. The university provides financial support to faculty members for organizing and attending conferences, workshops, for filing patents and for completing certified courses.

10. The university provides financial support to faculty members and students in the form of Vice Chancellor's Innovation Fund (VCIF) for conducting the activities of research and innovation is available to faculty members

11. The outcome of above and many other initiatives by the university is demonstrated through various quality benchmarks the university has achieved in terms of its rankings, collaborations, and recognitions. Details of these can be found of following link:

<https://www.ncuindia.edu/quality-benchmark/>

File Description	Documents
Upload relevant supporting document	View File

3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)

0.54

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year

1

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

4

File Description	Documents
Upload the data template	View File

Upload relevant supporting document

[View File](#)

3.1.5 - Institution has the following facilities to support research
Central Instrumentation
Centre Animal House/Green House Museum
Media laboratory/Studios Business Lab
Research/Statistical Databases Moot court
Theatre Art Gallery

A. Any 4 or more of the above

File Description

Documents

Upload relevant supporting document

[View File](#)

3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year

1

File Description

Documents

Upload the data template

[View File](#)

Upload relevant supporting document

[View File](#)

3.2 - Resource Mobilization for Research

3.2.1 - Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs)

0

File Description

Documents

Upload the data template

No File Uploaded

Upload relevant supporting document

No File Uploaded

3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)

0.75

File Description

Documents

Upload the data template

[View File](#)

Upload relevant supporting document

[View File](#)

3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year

1

File Description

Documents

Upload the data template

[View File](#)

Upload relevant supporting document

[View File](#)

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

In line with its vision, mission and core values, NCU has taken many steps to inculcate the culture of innovative thinking amongst its faculty members and students. These include (a) Updating its curriculum as per recent trends and requirement by introducing new courses, programmes and specializations (b) Flexibility of choosing multidisciplinary courses as per CBCS (c) Introduction of mandatory courses like Problem solving and design thinking, Entrepreneurship and General Proficiency (d) Regularly updating its infrastructural facilities, (e) Establishing the Institute Innovation Council (IIC), (f) Providing financial support for innovative projects, for conferences, seminars and workshops, for filing patents, (g) Organizing regular seminars, workshops and training sessions for this purpose, and (h) Recognitions and awards for implementation of innovative projects, (i) start up initiative pitching sessions.

The university has also instituted the Vice-Chancellor's Innovation Fund (VCIF) Scheme that acts as an initial grant to nurture ideas, passion and convert products into start-ups.

In addition to the above efforts, the university has also established an incubation center to help students and faculty incubate innovative ideas by facilitating skills like Creative Thinking, Problem Solving and Data Generation.

Currently, projects and industry problems related to the start-up company, City Innovates Pvt. Ltd., Gurugram (our main funding partner) has been taken up. University has also identified several student projects to incubate further through the NCU Startup Program. Several business plans are in the pipeline and incubation of business ideas has taken shape as mentioned below:

1. Coopern4u (Fintech)

○ www.coopern4u.com

2. Curesee (Healthtech)

○ www.curesee.com

3. Thrifty AI (Deeptech)

○ <https://www.linkedin.com/in/thrifty-ai-309222190/#>

As a demonstration of all these efforts, on 18th of August 2020, The NorthCap university was categorized as band 'A' institution in the Category of 'University & deemed to be University (Private-Self-Financed)' in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2020.

File Description	Documents
Upload relevant supporting document	View File

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

Nil

3.3.2.1 - Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the year

48

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year

3.3.3.1 - Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year

29

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.4 - Research Publications and Awards

3.4.1 - The institution ensures implementation of its stated Code of Ethics for research

3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following

- Inclusion of research ethics in the research methodology course work
- Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)
- Plagiarism check
- Research Advisory Committee

A. All of the above

File Description	Documents
Upload relevant supporting document	View File

3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards
Commendation and monetary incentive at a University function
Commendation and medal at a University function
Certificate of honor
Announcement in the Newsletter / website

B. Any 3 of the above

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.4.3 - Number of Patents published/awarded during the year

3.4.3.1 - Total number of Patents published/awarded year wise during the year

4

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.4.4 - Number of Ph.D's awarded per teacher during the year

3.4.4.1 - How many Ph.D's are awarded during the year

16

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

126

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year

57

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS

D. Any 2 of the above

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.5 - Consultancy

3.5.1 - Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy

Yes, the university has a policy for research and consultancy in place.

The university has taken many important initiatives to encourage consultancy, some of them are as follows:

1. The university has well defined detailed policy for consultancy work and for revenue sharing amongst consultants (faculty, research scholars, technicians and students) and the university. Consultancy projects have been categorised into five types and revenue sharing, consultant charges and other details are accordingly decided taking salary, expertise and experience of consultants into consideration. Policy, procedure and forms pertaining to consultancy are given on the

following link:

1. <https://www.ncuindia.edu/wp-content/uploads/2020/11/Guidelines-for-Consultancy-Project-Final.pdf>
2. All facilities at the university are updated regularly through input from its stakeholders and through discussions in various university level committees. As a demonstration some of the recently established consultancy facilities at the NorthCap University are:
 1. NABL accredited The NorthCap University Testing Centre (NCUTC).
 2. Centre for Emerging Technologies
 3. The NorthCap Techno Business Incubation Centre (erstwhile Master Jagannath Centre for Excellence & Incubation)
 4. NavIC Lab
 5. CRDI Engine test rig.
 6. Daikin centre of excellence
 7. Beijing wave lab
 8. Licences of high end software like Ansys and solidworks
 9. Mistubishi Electric PLC Lab
 10. Cadence Design Lab
3. The University has established a common Central Research Facility (CRF) to be used by all its faculty members and students :
4. Taking advantage of its locational proximity to the industrial hub, the university encourages its faculty members for industry-academia collaborations, and has signed MOUs with many industries
5. The University encourages its students to work on live industrial projects and arranges for mentors from industry for them
6. Internship is mandatory for all students
7. The Research Development and Industrial Liaison (RDIL) office established at the university facilitates and monitors consultancy activities of the university. This office, under the leadership of its Dean, ensures timely information transmission and policy implementation of consultancy activities within the university
8. The university facilitates mentoring and guidance of faculty members from renowned academicians
9. In order to incentivise faculty members for better performance on this front, a systematic performance based 360 degree appraisal system, which is updated and improvised every year, has been implemented by the university

File Description	Documents
Upload relevant supporting document	View File

3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

5.02

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.6 - Extension Activities

3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

The NorthCap University encourages and empowers students to become confident leaders of tomorrow, and continuously strives to create well-balanced personalities, ready to brave challenges. The students are encouraged to engage in extension activities through participation in community service-related activities, seminars, workshops, field visits, conservation-based initiatives, and awareness programmes etc

- At NCU several campus-wide initiatives taken by students are committed to the green movement. They contribute in fields such as energy conservation, water harvesting system, waste management initiatives etc. We have created a 150 KW Solar Roof Top Panel in the campus. NCU has a Student Activities and Leadership Sub-committee (SAL) that is actively involved in engaging the students in several extension activities that are conducted on a regular basis. The university has a total of 44 clubs and 15 societies that have chapters of National / International Professional Societies like - Legal Aid Society, Yukti, NSS-NCU, Abhimanch Theatre Society, Yoga Club, e-cell, Enactus etc.
- Enactus NCU (NCU chapter of Enactus International)-undertakes projects to serve the community. Currently it is involved in a waste management project, in creating livelihood for Potters and in a conservation based project
- NSS-NCU conducts donation drives, adoption of villages, residential camps in villages, tree plantation drives and contributes in the Swachha Bharat Mission of the Government of India
- Yukti, the Social Service Club has four cells, namely Jagriti, Prerna, Khushi and Suvidha. The Club conducts awareness camps (related to health and hygiene), Visits to old age homes, orphanages and several donation and literacy drives.
- Legal Aid Society organises legal Aid Clinics in villages; visits Schools, Juvenile Homes, District jail, Slums etc. to conduct legal awareness talks on topics like Plea Bargaining, Drug Abuse Prevention, Rights of Prisoners, and Fundamental Duties etc.
- Rotaract NCU (NCU chapter of Rotaract International) conducts blood donation camps, water scarcity awareness campaigns, health awareness camps, literacy programmes etc.
- IEEE Humanitarian Events conduct humanitarian activities like Food donation drive- Zero Hunger Day, or conducting webinars on important issues like water conservation etc.
- Road Safety Awareness workshops/campaigns in association with Delhi Traffic Police and Haryana Police are conducted on a regular basis. An awareness session on voter's rights was also organised in association with the Election Commission
- The University has excellent sports that are used not just our own student but also by society in general. Several fixtures involving teams from outside are held throughout the year.
- The Extension activities conducted by NCU have achieved success as the students managed to bring about a difference in society through their various contributions.
- The legacy of NCU goes on, and given the wide gamut of initiatives,

both scientific and social, holistic education imparted by NCU has impacted the communities around us.

- Website link: <https://www.ncuindia.edu/community-service-clubs/>

File Description	Documents
Upload relevant supporting document	View File

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

3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year

4

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

15

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year

1459

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

3.7.1.1 - Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

12

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

3.7.2 - Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year

15

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.

Adequate facilities are provided by the institution for effective teaching learning processes and they are upgraded promptly. The Academic, IT, and Library Sub-committee of the university, work together to ensure that all teaching-learning are modernized and updated regularly. Some of the facilities are:

Physical Facilities:

- 89 classrooms, 19 tutorial rooms, 54 labs, and 5 workshops with Wi-fi and LAN enabled with 24 X 7 power backup.
- All classrooms, seminar hall, conference/meeting rooms, tutorial rooms, and most labs are air-conditioned and are equipped with speakers, LCD projectors, and large whiteboards for teaching.
- LCD display board in all prominent areas for important announcements & notices.
- Ergonomically designed seating arrangement in some of the classrooms with step seating for better visibility to students.
- A 430-seat state-of-the-art auditorium with well-equipped green rooms for congregational activities and pre-placement talks.
- Seminar Hall with a seating capacity of 110 and three conference/meeting rooms.
- The open-air amphitheater is used extensively for various university functions, clubs, and professional society activities for the holistic development of students.
- MOOT court for developing skills of advocacy.
- Total 54 labs comprised 605 networked computer systems, of which 55 are high-end systems with the latest licensed application software such as MATLAB, ANSYS, etc., and 115 printers.

- Labs like Daikin Centre of Excellence, Cisco Lab, Mitsubishi lab, High performance computing lab, Beijing Wave lab, NaVIC lab, etc. which have been set up in collaboration with industry and government agencies.
- Central Research Facility having adequate research facilities (hardware and software) to be used by students and faculty members.
- Facilities like Master Jagannath Centre of Excellence and Incubation, Institution's Innovation Council, Tinkering Lab, Maker's Space, and Design Center to boost innovative and entrepreneurial skills of the students & teachers in the university.
- Dedicated placement cell with interview cabins & common spaces for group discussions.

ICT Facilities:

- Enterprise Resource Planning System (ERP) based on Cloud computing.
- Student e-Portfolio well integrated into student mentoring process.
- Online Parental Information System for providing timely information to parents regarding their ward's academic development.
- Facility for e-Content development by faculty members by using software like MS-Teams.
- The Learning Management System (LMS) provides students with online access to the course content. Currently at NCU , CANVAS is used as an LMS .
- Student - computer ratio is 4:1 and the allotment ratio in the lab is 1:1.
- Online teaching and examination facilities through MS-Teams, Microsoft Forms, and Mercer Mettl.
- Biometric attendance for faculty and students in every classroom.
- Smartboard facilities in some of the classrooms are also available.
- Repository of recorded lectures by faculty members.

Library Resources:

- The Library and Information Resource Centre (LIRC) is well stocked and has a rich collection of books, journals, e-books, e-journals, and other online resources.
- The library has a freely downloadable university Library Android mobile app as well as a VPN where users can access library resources 24x7
- The library is fully automated having Web OPAC software.
- Library timings are 8:00 am to 8:00 pm on all working days and 8:00 am to 10:00 pm during examinations.

File Description	Documents
Upload relevant supporting document	View File

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

The University's cultural, yoga, and sports activities are organized under the guidance and leadership of the 'Student Activities and Leadership (SAL)' Committee, which ensures that facilities required for such activities are adequate and that these activities are conducted throughout the year. These efforts are self-evident from many participations by the students and their achievements in terms of winning medals and awards. The sports officer (who is also a member of the SAL committee) ensures that norms and procedures prescribed by the Sports Authority of India (SAI), as well as various sports and games Federations of India, are practiced in letter and spirit for organizing quality sports events. The clean and pollution-free campus, along with state-of-the-art facilities provides a conducive environment for encouraging cultural, extra-curricular, and sports activities on the campus.

- The University has a 430-seater avant-garde auditorium with well-equipped green rooms for the participants, which is widely used for many cultural and technical programs conducted throughout the year.
- The cultural festival Momentum, SPICMACAY concerts, dance, music shows, Teachers Day celebration, conferences, debates, and numerous club activities are organized in the University auditorium.
- The open-air Amphitheatre having a seating capacity of 2000, is used extensively for various university functions like Fresher's party, Farewell of the graduating student, Star nights during festivals, and many events organized by the different clubs and professional societies including NSS.
- The Yoga Club of the University conducts several yoga training sessions for faculty and students in the University's Yoga Center. Both students and faculty visit the Yoga Centre regularly for practicing yoga on their own as well.
- The University ensures modern facilities both for outdoor sports like Cricket, Hockey, Football, Basketball, Volleyball, Badminton, Lawn Tennis, etc., as well as indoor sports like chess, carom, table tennis, etc. A dedicated sports room has been earmarked by the university for the same purpose.
- The University's cricket-cum-football ground is arguably one of the finest well-maintained grounds in NCR. Floodlights are installed for outdoor sports activities during evenings and nights. The student groups regularly organize several Inter and Intra University competitions which helps them to build traits like discipline, perseverance, and team spirit.
- There is also a common room available for both boys and girls with reading and recreational facilities.
- Recently a 4000 sq. ft Gymnasium is inaugurated for the use of students, faculty, staff and alumni.

Students effectively use the locational advantage and infrastructure of campus for many community services and social cause-related activities.

File Description	Documents
Upload relevant supporting document	View File

4.1.3 - Availability of general campus facilities and overall ambience

- The University campus located in a clean environment is spread over 10 acres, with a covered area of over 32,000 square meters that provide a conducive environment for the holistic development of its students.
- An experienced Estate Manager is on board, who prepares the plan for the phased provision of facilities, in close consultation with the University authorities, and continuously improves its physical, academic, and information infrastructure in pursuit of academic excellence.
- The excellent academic infrastructure consists of 89 classrooms, 19 tutorial rooms, 54 labs, 5 workshops, faculty rooms, seminar hall, conference/meeting rooms, common rooms, media centre, and a 430-seat state-of-the-art auditorium with a well-equipped Green Room for participants.
- A health center with a full-time doctor and two beds facility.
- Separate parking space for students and university staff.
- Complete campus is wi-fi and LAN enabled with air-conditioned facilities wherever required.
- The open-air Amphitheatre next to the sports ground is used extensively for a number of congregational activities.
- Sports facilities for nearly all indoor and outdoor sports. The cricket-cum-football ground is arguably one of the finest grounds in the NCR, with floodlight facilities for night sports.
- An air-conditioned two-storey cafeteria, student centre, and Incubation Centre covering an area of more than 15,000 sq ft provides a unique experience to faculty and students alike.
- Nestle and a Coca-Cola outlets for refreshments and mini meals.
- Separate boys and girls hostel facilities to over 125 students. The rooms are well-furnished, with a 24-hour power backup system, treated water, Wi-Fi, intercom, indoor sports facilities, a central kitchen, entertainment, and recreational facilities, and bus service to convey the students to and from the University.
- Campus-wide initiatives at reducing, reusing, and recycling are helping it achieve a green code of living like:
 - Installation of 150 KW rooftop solar PV system with the net metering facility - possibly the first and only university to install it.
 - Rainwater harvesting system with pipes going to 300 feet below

ground level.

- 100 KLD sewage treatment plant to ensure zero discharge to municipal sewer lines with plans to use treated water for horticulture.
- No-touch sensor taps to save water wastage as well as for hygiene purposes.
- LED lighting, false ceilings to reduce heat load, as well as abundant natural light makes the building energy efficient.
- Garbage handed over to MCG for proper disposal.
- No hazardous waste is produced on campus.
- All loosely discarded e-waste is collected at the university and handed over to external vendors.
- NCU is committed to the green movement and has 6 acres (60 percent) of green area and has been declared the winner of the HUDA garden competition in Gurugram for the 17th consecutive year.
- Understands responsibility for providing a barrier-free environment for differently abled, hence has made all provisions including ramps/lifts, Disabled-friendly washrooms, human assistance, etc. for them.
- Canara Bank with an ATM operating from its premises for the convenience of its stakeholders and the local community around.
- CCTV surveillance in the entire campus to ensure safe and secured surroundings.

File Description	Documents
Upload relevant supporting document	View File

4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

561.91

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

- The library has purchased 'Libsys 10.0' Library Software and is fully automated since 2008.
- Digital Library is functioning 24 x 7 on all the 365 days through:
 - VPN facility

- Library android mobile app
- The Central Library is working from 08.00 am to 08.00 pm on all the working days and is functioning from 08.00 am to 10.00 pm during examinations.
- Library and Information Resource Centre (LIRC) provides the facility of online renewal of books through the WEB OPAC facility.
- 20 dual-core machines with printer and scanner facility have been installed for users in the Multimedia Section of the library to access e-resources and recorded lectures of faculty members. Headphones for access to audio-video materials are provided.
- The library is a member of:
 - DELNET (Developing Libraries Network)
 - American Central Library, New Delhi
 - National Digital Library of India (<https://ndl.iitkgp.ac.in/>) (NDL)
 - Swayam
 - ePG Pathshala
 - Shodhganga (submitting Ph.D. theses since 2015, as directed by UGC)
- LIRC subscribes to:
 - Tata McGraw Hill (TMH) e-books database
 - Springer
 - American Society of Civil Engineers (ASCE)
 - American Society of Mechanical Engineers (ASME)
 - SAGE Journals
 - Ebsco Business Source Elite
 - Westlaw
 - MANUPATRA
 - SCC Online
- Seven Department Libraries are available (CSE, EECE, ME, Civil, APS, SOL & SOM) for immediate reference by staff, students, and scholars of the concerned departments.
- NCU has taken adequate measures to ensure 'Plagiarism free Learning and Research' for its scholarly communication. The Library has also been provided Turnitin software to check plagiarism.
- The Library has an institutional repository.
- Library offers its students a user alert service. Users get

notifications through email and SMS on every transaction.

- Regular information and updates on 'New Arrivals' are provided through group emails and uploaded on the university's website.
- The library is also equipped with Educational Audio & Video Cassettes, CD ROMs, Back Volumes, Project Reports / Ph.D. thesis, etc. Several guides are available in the reference section for preparation of competitive exams like GATE, Civil Service Exam, TOEFL, GRE, GMAT, Defense Service exam, and similar exams.
- The Library conducts 'orientation program', regularly on Library systems and services, e-resources, remote access, etc. for effective utilization.
- All-important activities, notices, services, and facilities, etc. are displayed on a Digital Notice Board at the library gate to keep the users aware of the facilities and services offered.
- The Library Sub-committee of the university meets every month to ensure that all Library facilities are updated regularly.

File Description	Documents
Upload relevant supporting document	View File

4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e - journals e-books e-ShodhSindhu Shodhganga Databases	A. Any 4 or all of the above
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File Description	Documents
Upload relevant supporting document	View File

4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)
171.99

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)
251

File Description	Documents
Upload relevant supporting document	View File

4.3 - IT Infrastructure
4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year
89

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

4.3.2 - Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility

Yes, The NorthCap University has an IT policy, makes appropriate budgetary provisions, and updates its IT facility from time to time including the Wi-Fi facility.

Some of the IT facilities available with the university are as follows:

- 1) Complete campus is Wi-fi and LAN enables 24 X 7 power backup.
- 2) All classrooms, seminar hall, conference/meeting rooms, tutorial rooms, and most labs are air-conditioned and are equipped with fixed speakers, LCD projectors, and large whiteboards for teaching.
- 3) Student - computer ratio is less than 4: 1 and the allotment ratio in the lab is 1: 1.
- 4) 55 system and application licensed software, and 115 printers.
- 5) Enterprise Resource Planning System (ERP) based on Cloud computing.
- 6) Online Student portfolios are well integrated into the student mentoring process.
- 7) Online Parental Information System for providing timely information to parents regarding their ward's academic development.
- 8) Facility for E-Content development by faculty members.
- 9) The Learning Management System (LMS) provides students with online access to the course content.
- 10) Facility for online teaching and examination through MS-Teams and Mercer Mettl.
- 11) Repository of recorded lectures by faculty members.
- 12) High-performance computation lab.
- 13) The Library and Information Resource Centre (LIRC) has a rich collection of e-books, e-journals, and other online resources.
- 14) Freely downloadable university Library Android mobile app where users can access library resources 24x7 through their mobiles.
- 15) Remote access facility through VPN provides 24X7 access to library resources.
- 16) Biometric attendance for faculty and students in every classroom.

The IT policy provides a framework about how to use the IT facilities, internet facilities for academic and research purposes. IT policy can be browsed from the link given below.

File Description	Documents
Upload relevant supporting document	View File

4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
2769	890

4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)

- 250 MBPS - 500 MBPS

File Description	Documents
Upload relevant supporting document	View File

4.3.5 - Institution has the following Facilities for e-content development Media centre Audio visual centre Lecture Capturing System(LCS) Mixing equipment's and softwares for editing

- A. All of the above

File Description	Documents
Upload relevant supporting document	View File
Upload the data template	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year

3015.08

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

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

The general administration of the University is being taken care of by the Registrar, Functional Heads, and Head of the Departments as well as the Top Management. However, to encourage the active participation of students in the general administration, several sub-committees are being constituted at the university level to oversee the academic and non-academic functions and evolve and take actions for improvements, wherever required. These sub-committees have representation from management, faculty, and students. The students in the sub-committees are expected to give feedback as well as suggestions for improvements in both academic and non-academic matters.

Sub-committees about physical, academic, and support facilities are as follows:

(i) Examination Procedures and IT Integration:

(ii) Admission: Documents attached.

(iii) Professional Societies:

- As per the year's budget, a specified financial amount will be made available to the Departments/Schools at the beginning of the year.
- Application (with a cover letter) in a prescribed format should, directly, be submitted to Chairperson Professional societies/SAL, after receiving prior approval from HOD. Incomplete application form shall not be considered for the financial support.
- After initial scrutiny, application form received from the faculty member will be placed before the committee.
- The committee reserves the right to make recommendations for special cases to the competent authority.
- Once approved, the decision should be communicated to the CFAO and the concerned student keeping the HOD, Vice-chancellor and Hon'ble Governing Body informed.
- Financial assistance to participate in the workshop/short term training program/course would be limited to within India.

(iv) Feedback: Student Feedback Process involves capturing feedback from students about the teaching effectiveness and other course related parameters of all faculty members. All regular faculty, visiting faculty and University fellows taking UG and PG classes in the respective semester are covered in this process through Nysa ERP online process.

(v) Infrastructure: Physical Infrastructure maintained in-house through a team of masons, Carpenters, Electricians & Plumbers.

• Maintenance of Service (Electrical, W/S, A/C, Plumbing, Sewage): Air Conditioning maintenance is done throughout sourced contract. All other services are maintained by us in-house team.

• Furniture: Furniture maintenance and renewal is outsourced to a small team of carpenters.

• Arboriculture: A team of 12 gardeners look after our Arboriculture. NCU garden has got the 1st prize from HUDA, Gurugram, for the last 16 years continuously.

• Housekeeping: All housekeeping staff other than the supervisors are outsourced. There are 30 housekeeping staff who works daily.

(vi) Capital expenditure: Following procedures to be followed by all Departments/Functional Heads for purchase of items from the Capital Budget Head: -

- Departments/Functional Heads shall prepare their Annual Estimates, and forward it to the Registrar by 01 June each year, with detailed justification.
- A copy of the estimate shall also be sent to the CFAO.
- Registrar shall consolidate the requirements of all Departments and Functional Heads and shall put up to the Governing Body through the Vice Chancellor.

- A meeting shall be convened by the Registrar of all Dos/HoDs. Functional Heads, wherein the Capital Budget requirements shall be discussed, analyzed and sanction accorded for executing the same.
- In order to complete the process the purchase requirements following Purchase Committee shall be convened to procure/upgrade the items:

(vii) Library: Procedure for procurement of books

(viii) Student Activities & Leadership (SAL): To promote students' interest in sports and cultural activities a Music club, Photography Club, Debating Society, Dramatics Club, Quizzing and Mathematics, Social Service clubs NGO - YUKTI are run by the University. Sports facilities for Football, Cricket, Volleyball, Lawn Tennis, Basketball is available for students. (Documents attached for the detailed procedure).

(ix) Community Services: Documents attached.

(x) Alumni Connect: Following procedures to be followed by all Departments Heads- Alumni Connect for the yearly plan:

a. Departments Heads- Alumni Connect shall prepare their Annual Calendar and share in the meeting with detailed justification and plan of conduct, manage and post event management.

b. Chairperson- Alumni connect shall consolidate the yearly plan of all Departments and in discussion with Member secretary finalize the calendar.

c. University level events will also be proposed by Member secretary in the meeting and with due approval it will be finalized.

d. A final yearly calendar having university level and department level events will be shared for approval by the authority.

e. Robust and time bound cross checking and documentation is undertaken every month to review the progress and further action plan.

f. The committee intend to meet atleast once in semester and/or as required.

The committee follows the following process while doing any activity, event, meet with the alumni. The components are - Connect, Engage and Impact. The entire documentation will be undertaken with this principle.

(xi) IT & related issues:

Keeping in mind the requirement of modern IT infrastructure for effective teaching-learning and research, the NorthCap University has given top priority to the up-gradation of its IT facilities. At the beginning of the academic year, need-assessment for replacement/up-gradation/addition of the existing IT infrastructure (both software and hardware) is carried out based on the suggestions from BOS members, Heads of the departments, faculty members, lab technicians, system administrator, and management. For this, many factors including course requirements, computer-student ratio, budget constraints, the requirement for research, working condition of the existing IT equipment, students' input, current usage, industry trends, etc. are taken into consideration. The IT Sub-committee of the university, which meets every month ensures that the IT infrastructure of the university is modernized, functional, and is optimally utilized. Both

faculty and technical staff are provided periodic need-based training for effective utilization of IT infrastructure.

The following figure is showing purchase process for the IT department.

These subcommittees conduct regular meetings at least once a month based on the agenda and consider various pending and arising issues, make decisions, and fix delivery times for each action. The meetings are convened by the Member Secretary with the concurrence of the Chairperson and minutes of each meeting are maintained by the Member Secretary.

File Description	Documents
Upload relevant supporting document	View File

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)

293

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year

1122

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution 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
Upload the data template	View File
Upload relevant supporting document	View File

5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely

• All of the above

redressal of the grievances through appropriate committees

File Description	Documents
Upload relevant supporting document	View File

5.2 - Student Progression

5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)

5.2.1.1 - 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

16

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

5.2.2 - Total number of placement of outgoing students during the year

349

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year

154

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

5.3 - Student Participation and Activities

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

00

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

5.3.2 - Presence of Student Council and its activities for institutional development and student welfare

The NorthCap University believes in 'students first' as its motto and ensures that students are the driving force behind all its important initiatives and activities. This is ensured at all levels by involving

students in all the important functioning committees of the University. NCU Promotes 'Student Class Committee' and 'Dean's List of Students', which fulfil the parameters of the student council. This, of course, is in addition to the many instructional level committees where students are active members. The nature of the issues raised by the Student Class Committee are a combination of academic and non-academic matters, such as infrastructure, essential supplies, health and sanitization, attendance, course curriculum, IT, placement and other related issues.

The NorthCap University also has several Student Committees that function to build student profiles and enrich their overall experience at NCU. The Student Activities and Leadership Sub-committee is one such committee that looks after co-curricular and extra-curricular activities organised at the University. The committee's objective is to improve the standards and expand the variety of extra-curricular activities at the campus. It organises various cultural and technical events, community service-related campaigns and webinars, environment awareness drives and competitions like hackathons, coding debates, group discussions, MUM conferences, etc. It encourages students to participate and organise intercollege/interstate competitions both within the campus and outside. In addition, the committee ensures that proper sports facilities are available for the holistic development of students and that students participate in sporting events actively.

The University has 44 clubs that function at both Departmental and University level. These clubs fall under four categories- Hobby Clubs, Academic- reinforcement Clubs, Skill Development Clubs and Community Service Clubs. All co-curricular and extra-curricular activities are student-driven. Each club has a President, Secretary, Treasurer and many members who participate in the events organised by the Clubs. Besides round the year activities conducted by the various Clubs of NCU, Momentum, the three-day-long annual cultural and technical festival, is conducted annually in October. A three-tier team of students manages the conduct of the festival. The team comprises the Core Team members, the Main Team and the Event Coordinators.

Along with this the University also has Professional Societies Sub-committee. There are 15 Professional Societies working at the university namely IEEE, Computer Society of India, SPIE, Moot Court, ENACTUS, SPACE, OSA Optical Society of America, IEI Institution of Engineers (India), EWB (Engineers without Borders), OWASP (Open Web Application Software Project), ASQ (American Society for Quality) etc. The mission of Professional Societies is primarily educational and informational. Joining professional society of their choice presents many opportunities for students to learn more about themselves, their goals, and their strengths.

Students also actively participate in various sub-committees listed as under:

- Infrastructure Sub-committee
- ERP Sub-committee
- Academics Sub-committee
- Feedback (Student Redressal Mechanism) Sub-committee
- Library Sub-committee

- Admissions Sub-committee
- Career and Placements Sub-committee
- Professional Societies Sub-committee
- Alumni Connect Sub-committee
- Students Grievance Redressal Committee

File Description	Documents
Upload relevant supporting document	View File

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

1

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

5.4 - Alumni Engagement

5.4.1 - The Alumni Association/Chapters (registered and functional)contributes significantly to the development of the institution through financial and other support services during the year

The NorthCap University feels proud for its 15000+ alumni who, as its brand ambassadors, have gone on to make a mark in every walk of life and have contributed significantly to the growth of our university. The NorthCap University considers its Alumni as part of its global family and its Alumni cell headed by a Senior Professor and his team ensures that a strong connection is maintained with Alumni in every possible manner. Following are some of the important ways in which our alumni contribute towards the growth and improvement of our university:

- 1) Our Alumni act as mentors to our students for their professional and personal growth. For this they regularly communicate and meet with the students both in formal as well as informal manner.
- 2) During the induction programme, the Alumni of the university interact with the students of the entry batch for their orientation and for preparing them for future.
- 3) For industry and other projects, alumni act as co-guides of students. They also visit university as examiners for evaluating the projects of the students and as judges for Moot Court activities.
- 4) Alumni regularly conduct seminars, workshops, guest lectures, webinars and career counselling sessions for students at the university.
- 5) They help students in securing good internships and placements.
- 6) They conduct pre-placement interviews every year for preparing students for campus placements.
- 7) Being important stakeholder of the university, regular systematic feedback about curriculum and other aspects is collected from Alumni, and

action taken report is prepared hence they help us in improving curriculum and other aspects of the university.

8) Alumni help us in collaborating with various industries and in signing MOUs with them. Many of our MOUs with industries are result of efforts by our Alumni.

9) They help in start-up and incubation activities of the university by providing guidance and, financial and non-financial support.

10) They contribute to the infrastructural development of the university through setting up of labs and physical resources.

11) They are part of Academic Advisory Board, Internal Quality Assurance Cell (IQAC) and other relevant committees where they provide valuable input for improvement of the university

12) To strengthen the bond between university and its alumni, an Annual Alumni meet is organized at the university campus every year, where they come together with faculty members and students, and socialize and interact through many activities organized for them. It is through meets like this that many ideas for improvement of the university originate.

File Description	Documents
Upload relevant supporting document	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs)	A. \geq 5Lakhs
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File Description	Documents
Upload relevant supporting document	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance

VISION: "To be known globally for learning innovations, academic excellence and socially relevant research outcomes; strive to become the preferred destination for students, faculty, employers and collaborators & pride of alumni and the community
MISSION:

- Focus on quality of learning and innovation in all programmes with rigour and relevance
- Develop competent professionals - innovative, analytical and independent; committed to excel in all their endeavours.
- Develop linkages globally with government, industry, academia and alumni for knowledge generation, dissemination and application.
- Encourage multidisciplinary in programmes and projects to explore new frontiers of knowledge
- Continuously improve physical, academic and information infrastructure in pursuit of academic excellence.
- Create a nurturing environment for lifelong learning.
- Focus on entrepreneurship and socially relevant projects.

Governance Structure of the Institution:

The NorthCap University always strives towards excellence and has made all possible efforts to achieve the above stated vision and mission. This is effectively achieved through governing bodies, councils, boards and committees regularly meeting and functioning in coordination with each other. All the committees and offices have well defined standard operating procedures and policies which are strictly followed with single point aim of achieving the vision and mission of the university. The composition of committees is given in statute and ordinances. In addition to above committees, a strong feedback process from stakeholders through many formal and informal channels is in place. The Institution functions as per the guidelines, decisions and directions of the Board of Management, Academic Advisory Board, Joint Strategic Board, Academic Council and Board of Studies composed of eminent academicians, industry representatives, proficient administrators, accomplished Prof. of Eminence, Mentors and Vice Chancellors from IIT's, Central and State Universities, since its inception.

File Description	Documents
Upload relevant supporting document	View File

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

The NCU believes in Participatory Management and Decentralization. NCU nominates all stakeholders' students, faculty, and other administrative staff to contribute in various bodies as mandated. Several committees are constituted to facilitate opportunities for all the stakeholders for actively participating in growth and decision making of the university.

Some of the committees are as follows.

1. Board of Studies
2. Academic Council
3. Board of Doctoral Research
4. Grievance Redressal Committee
5. Selection Committee
6. Internal Quality Assurance Cell
7. Research Advisory Committee
8. Director of Schools and HOD's Committee
9. Department Faculty Board
10. Department Research Committee
11. Community Service Committee
12. Departmental Purchase Committee
13. Student Class Committees
14. Finance Committee

Following the Bottom-up approach, the various committees enable decentralization management establishing direct contact with students to relevant faculty, functionaries of the University and Vice Chancellor. The deliberation of the meetings is recorded for taking immediate action by the administration in all routine matters. For instance the University established the COVID-19 Cell, to address the concerns and grievances of the Students arising out of the outbreak of COVID-19 pandemic. The cell was established in conformance to UGC guidelines in March 2020. The University took proactive Student Centric Actions during Covid19 period, particularly related to online teaching, conduct of online examinations for final year and other students.

The University being a well envisioned organization has departmental and school level coordinators who are empowered to take decisions regarding curriculum design, allocation of courses, outreach activities, continuous evaluation process, guest lectures, lab manual development and mentorship for both students and faculties. These activities are guided by Standard Operating Procedures (SOP) created at school level ensuring autonomy, accountability and academic freedom. These are documented in Department Faculty board meeting.

The HODs and VC are part of selection committees for recruitment of faculty members. All the faculty members are encouraged and are entrusted with some responsibilities to participate in the university administration process. The faculty members participate in academic bodies, research committees, international collaboration, professional attachments, student activities, sports, incubation centre and Innovation Council. This contributes towards developing NCU as a family and understanding one's responsibility for a bigger role for the future.

The flow chart of the decentralization and participative management is discussed in 6.2.2. The statutory and other committees looking after the different aspects in the university are given in the link. In addition to the above committees, a strong feedback process from stakeholders through many formal and informal channels is in place (refer criteria 2). All meetings are held regularly, and minutes/action taken reports as appropriate is prepared. A few case studies on decentralization and participative management are provided in the additional information

File Description	Documents
Upload relevant supporting document	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

To enhance teaching learning process and instill flexibility and technology driven learnings

NCU will continue to deliver quality education by introducing outcome driven pedagogies and student centric philosophy. In the VUCA (volatility, uncertainty, complexity, and ambiguity) world, we continue to keep track and pace with latest innovations in teaching learning process including the content, pedagogy, assessment and evaluation taking advantage of digital era.

Enhancing Teaching Learning and Instilling Flexibility:

- To meet the industry expectations the NorthCap University has revised B.Tech and M.Tech Curriculum to provide specialisations in emerging areas (Data Science, Artificial Intelligence, Cyber Security, IOT, VLSI, Robotics etc.).
- NCU has MoU with Arizona State University, where global signature courses are developed by Faculty to be offered online.
- The Faculties at NCU have attended around 452 FDPs in last five years which has enhanced their functional area of expertise. There is provision of Special Casual Leave for faculties attending such events over and above their Casual Leave.
- SOP is issued for providing financial support to the regular faculty

members of The NCU for attending National/International conferences/Workshops within India and abroad

- The institute implements and adopts the quality policy where faculty with PhD from recognized institutes are hired. The percentage of PhD's has improved from 48% in 2015 to 69% in 2021
- In order to encourage utilizing the collective wisdom of highly experienced academicians and industry leaders Faculty Mentor-Mentee scheme is running successfully to further upskill the faculties

The new teaching learning pedagogy lays emphasis on experiential learning components which prepares students for the workplace and civil society. Various experiential learning components like Case Studies, Industry Projects, Field Experience, Internships, Industry visits, Moot court etc. are made integral part of courses.

Technology Driven Learning:

- Digital technology like MS-Teams, Zoom and Google has enabled faculty at NCU to create more interactive, engaging, flexible learning materials in a range of digital and multimedia formats and make them available to students online.
- The university mandates all the faculties to use LMS for their respective courses, so that students can access, tutorials, PPTs, videos and supplementary material from anywhere and at any time. This helps the students to maintain self paced study.
- Recently the institute has upgraded LMS to Canvas for enhanced learning process.
- Online examination facilities through Microsoft Forms, and Mercer Mettl have ensured that the NCU examination system functions smoothly even during pandemic.
- Enterprise Resource Planning System based on Cloud computing to maintain attendance and broadcast notices to students is running successfully.
- Student e-Portfolio is well integrated into the student mentoring process and Online Parental Information System for providing timely information to parents regarding their ward's academic development.
- The library is fully automated having Web OPAC software and has a freely downloadable university Library Android mobile app as well as a VPN where users can access library resources 24x7.
- The library is a member of DELNET , American Central Library, National Digital Library of India, Swayam, ePG Pathshala, Shodhganga.
- Complete campus is wi-fi and LAN enabled with air-conditioned facilities wherever require.

File Description	Documents
Upload relevant supporting document	View File

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

The Governing Body, Board of Management (BOM), Academic Council and Finance Committee are the four statutory bodies with their specific roles, composition, and meeting schedules. The decision making is done through the said bodies. Issues flow upwards from departments, through Directors & Heads Committees, where detailed discussions bring out all aspects of an issue. The key issues go to concerned bodies i.e., Academic Council, BOM ,

Finance Committee for approvals as the case may be. The Vice Chancellor is head of both Academic Council and the BOM which have members from the Departments thus providing a continuity throughout the decision-making process. The Governing Body is the highest decision-making body, with the Chancellor as its Chairman, which provides directions, ratifies or reviews the various decisions, at the apex level. In addition, an Academic Advisory Board gives long term strategic advice on all academic matters and life at the University. The above system has functioned well in the last ten years of the University and is now well established. All roles and responsibilities of key personnel like Vice Chancellor, Registrar have been mentioned in the University Act vide different statutes and Ordinances. There are several internal committees and sub-committees with specified roles and responsibilities which support the statutory bodies for proper functioning, planning, execution, and improvement at the university level. Special attention is paid to involvement of stakeholders.

Some instances of evidence of effective functioning and well defined procedure, policies are listed below:

- Service Rules & Leave Rules are well defined. Provision of EL, CL, Special Casual leaves, Vacation leave, Maternity leaves (on full salary), Short Leave, Study leave and Sabbatical leave.
- Flexible timings for all faculty members as per UGC norms and provision for freedom of the house for Sr. Professors.
- Constitution of the selection committee for recruitment is well defined with expert members from IITs, JNU, DTU and other prestigious universities along with HODs and VC as chairperson.
- Salary as per seventh pay commission for all faculty with PhD qualification.
- PF, ESI & Gratuity as per the prevailing law, and Special Role Allowance as per university norms for holding administrative positions.
- Timely salary disbursement of every month.
- Group Mediclaim policy as per norms for all Faculty, Technical & Administrative employees and their families.
- Teaching load allocation as per UGC norms.
- Emeritus faculty scheme and professor of eminence appointment. Annual 360 degree appraisal process.
- Faculty, administrative staff and technical staff recruitment norms and Career Progression & Pay Scheme (CAPS).
- Research promotion and consultancy policy.
- Well defined SOP for maintenance and utilization of physical, academic and support facilities.
- Quality initiatives like Best project awards, VC Innovation fund, Incubation centre, ICT enabled teaching learning process, Financial Support to faculty members, pre-placement interviews, strong industry and international collaborations, general proficiency courses, and scholarship schemes.

In addition to the above, the Vice Chancellor, the Pro-chancellor, the Registrar and members of the Governing Body have an open-door policy and are personally present every day in the university to ensure effective and smooth functioning of the university.

File Description	Documents
Upload relevant supporting document	View File

6.2.3 - Institution Implements e-governance in its areas of operations

6.2.3.1 - e-governance is implemented covering following areas of operation

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

A. All of the above

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff

The NorthCap University has an excellent work culture which brings its employees together on a common platform and motivates them to deliver their best. To achieve this end, various steps in terms of annual appraisal system, promotion policy and welfare schemes have been implemented; some of these are mentioned as follows:

Annual Appraisal System:

The Annual Faculty Appraisal Form is designed in a manner to make the process holistic, comprehensive, and participative in nature. The overall weightage of teaching/research and outreach activities are provided to ensure a broad coverage of all vital aspects of faculty development. The assessment factors have been clearly defined for an appraiser to provide objective rating/score against each parameter. All stakeholders like faculty, students, administration are involved in the process thereby ensuring a 360 degree feedback. One-on-one yearly appraisal meetings of faculty are held with the Central Appraisal Committee which comprises HOD, Vice Chancellor, Pro-Chancellor, and Governing Body members, making it a transparent and two-way discussion process for further improving the university standards. Similar annual appraisal process is followed for Admin and Technical Staff.

Promotional avenues:

The NorthCap University has a well-defined Career Advancement and Progression Scheme for promotion of its staff. The norms and procedure for promotion for faculty members, which have been detailed as per the statutes, are based on their respective School/Department and designation. Similarly, there is Career Progression and Pay Scheme exist for Technical and Admin Staff.

Effective welfare measures:

- Some of the welfare measures implemented by the university are as follows:

- Salary structure as per 7th pay commission for all faculty having PhD qualification.
- Social security benefits viz., Gratuity, EPF, ESI and Group health Insurance for employees and their family members.
- Special role allowance as per university norms for holding administrative positions by faculty members.
- Provision of EL, CL, Special Casual leaves, Vacation leaves, Maternity leaves (on full salary), Short Leave, Study leave and Sabbatical leave.
- Flexible timings for all faculty members as per UGC norms and freedom of house for Senior Professors.
- Timely salary disbursement every month.
- Rotation policy for HODs/Directors/Dean for developing talent pool of leaders within the university.
- Faculty are given individual cabin rooms with adequate storage space which are equipped with LAN connection and Wi-Fi.
- Dispensary (Medical Room), Bank and ATM facilities for employees within the campus.
- Financial support to faculty members for attending conferences, seminars, workshops etc.
- Elevator facility in all the buildings of this institute and user-friendly campus for physically handicapped persons (toilet, ramps, wheelchair)
- Regular Faculty, Technical and Admin Development programmes for overall development of its staff.
- Existence of Committee for Women Empowerment and Welfare like Internal Complaint Committee, Faculty Grievance Redressal Committee, and SC/ST Committee
- Celebration of important days like Teacher's day, Women's day, Engineer's day, etc.
- E-card on the birthday of every employee and acknowledgement of research and other important contributions by its faculty members.
- Sports facilities and competitions for faculties and technical staff.

File Description	Documents
Upload relevant supporting document	View File

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

21

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year

14

File Description	Documents
Upload the data template	View File

6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the year(Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)

96

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.4 - Financial Management and Resource Mobilization

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

Mobilization of Funds:

- The NorthCap University is a private, self-financed institute, where the funds are mobilized essentially through the fee paid by the students.
- The laboratory equipment & infrastructure are, to a certain extent, augmented by the financial grants, received from various funding agencies, for the research projects.
- The University has a well-established Finance Committee, which oversees the budget, financial transactions, financial planning, etc.

Optimal Utilization of Funds:

- The University has a well-defined mechanism to monitor effective and efficient utilization of available financial resources, for the development of academic processes and infrastructure development.
- Budget planning and budget reviews are a continuous process, which is conducted periodically.
- The University calls for the budget proposal from the Heads of Departments /Deans of the School before the beginning of a financial year.
- The departments are required to submit the budget and the budget allocation and approval is done for every Department.
- The approved budget is placed before the Finance committee for approval from the members. All the major financial decisions are taken by the members of the Finance committee and approved thereafter by Board of Management (BOM) and GB members
- The budget review is held in the middle of the financial year after a detailed briefing by the Head of the Department, by the Budget Committee, headed by the Vice-Chancellor.
- The optimal utilization of the funds from the budget allocated is reviewed at the end of the year for rationalization.
- The finance committee, which is the apex body for the financial approvals, meets at least four times a year to examine the accounts and to scrutinize proposals for expenditure.
- Expenditure other than that provided in the budget earmarked is incurred by the University, with the approval of the Finance Committee.
- Institute adheres to the utilization of budget, as approved for academic and administrative expenses by the Board of Management
- In order to raise its financial status, the University has initiated

the following measures

- To increase students' / scholars' enrollment
- To make periodical rise in Tuition, Special, Exam fees etc.
- To enhance project culture and motivate faculty to apply for more funded projects To organize a greater number of seminars / workshops etc.
- To reach out with industries through Collaborative Ventures
- To generate more funds through University Alumni Association To establish more MoUs

File Description	Documents
Upload relevant supporting document	View File

6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs)

0.2645

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.4.3 - Funds / Grants received from non-government bodies, individuals, philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)

0

File Description	Documents
Upload the data template	No File Uploaded
Upload relevant supporting document	No File Uploaded

6.4.4 - Institution conducts internal and external financial audits regularly

The university has a budgetary control system to monitor the effective and efficient use of financial resources and to give regulators and the society reasonable assurance that financial statements are accurate and complete. The Internal Audit of the University is conducted by M/s SRY & Associates and the statutory auditors are M/s S. Raman and Ayer and co. The aim of the internal and external audit of the University is to assure the key areas of finance, and independent examination of the financial statements, which increases the value and credibility of the financial statements produced by management, thus increasing user confidence in the financial statement, earning compliances and in adopting best practices, reducing investor risk. It also covers all major systems and procedures of compliances like the Income Tax, UGC, and quality of education.

The university is using Tally software with the latest version of 6.6.3 in calculating monetary terms, accountancy, tax, and GST calculation, managing commercial transactions effectively and efficiently. The objective of using this software is to manage all the data in a proper way that can be efficiently accessed whenever needed.

The scope of the audit includes an assessment of the following:

- Adequacy of accounting, financial and other controls.

- Inspection of all aspects of the university relevant to financial statements.
- All income due to the University is identified, collected, receipt, recorded, and banked promptly.
- All the expenses are pre-approved in the budget of the University and all the audit compliance are adequate and followed by the University according to the procedures and controls.
- All expenditures involving payment from the grants received from the state govt. and the UGC is according to their directions and recommendations.
- The assets and other interests of the University are properly safeguarded. The use of resources achieves value for money.
- Determines adequacy of internal controls. Promotes best practices for controls.
- Identify operational inefficiencies and waste. Assess efficient and responsible use of resources

The internal and external financial audits of the University have been conducted regularly and their reports have been discussed in the Finance Committee, BOM and GB meetings. Any recommendations and suggestions on the University financial controls are taken seriously and implemented on an urgent basis.

File Description	Documents
Upload relevant supporting document	View File

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals

The NorthCap University has constituted a well- organized and active team for IQAC as per the requirements of NAAC. The prime role of the IQAC is to develop and maintain a continuous improvement system for the overall quality and performance of the institution in various areas such as Teaching learning process, revamping of curriculum, Research, Faculty development, Co-curricular, Extracurricular, Alumni related activities, etc

Some of the significant contributions made by IQAC at the NorthCap University are mentioned in the case study attached. Some of the highlights are:

- Major revamping of curriculum in consultation with the Industry and Academia and adopting best practices.
- Enhancing teaching effectiveness by increasing practical components and experiential learning in courses.
- Establishment of tinkering and makerspace lab for hands-on experience. Skill based and experiential learning in curriculum for slow learners.
- Utilization of third-party Aptitude & Domain Test for increasing employability of students. Inclusion of 140 hrs community service scheme in the curriculum.
- Development of an e-portfolio platform and mentoring for students. MoU's with leading industries like MACE, DAIKIN, EXICOM etc.
- Upgradation of faculty skills through Faculty Externship program in

industries and faculty mentor programmes.

- Funding through Vice-Chancellor Innovation Fund Scheme for socially relevant innovative projects.
- Under the direction of IQAC, university ranking improved in NIRF (97 - Engineering Category) and is categorized as 'Band A' institution (rank between 06-25) in ARIIA 2020.
- Recruitment of Director for incubation centre and Implementation of NISP to promote innovation and startup culture.
- Organising Technovation event where students showcase their projects and can receive best B. Tech project awards amounting upto 1 Lakh.
- NCU is recipient of Swachh Bharat Award.

Two practices out of above activities are:

Establishment of Tinkering Lab: Tinkering Lab is being nurtured as a central facility to encourage all students to work on projects of their interest and create artifacts that would bring them satisfaction and gain confidence. The dedicated technical staff and faculty members provide hands-on support on different emerging areas such as IoT, Big data, cloud computing, robotics etc. to students working on different projects. Approximately, 450 projects were made in the Tinkering lab last year and almost 400 students of the CSE, ECE, Mechanical and the Civil Departments made real time projects. The output of the tinkering lab projects resulted in 2 patents.

Student E-portfolio system: NCU believes that each student admitted to the University has his/her own strengths and this can further be strengthened by the University by certain means. This led to the development of an in-house e-portfolio management system, where students are assigned to the particular mentors and their record is maintained online. This is an innovative method to understand the strength and weakness of students by tracking their previous learning curve through the creation of a Student Portfolio System. For achieving full employability, it is important that all students including slow learners are provided with equal opportunities to be able to compete for the job market. The E-portfolio system gives overview of achievement and area of improvement to each student.

File Description	Documents
Upload relevant supporting document	View File

6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Conferences, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and students Participation in NIRF Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. Any 5 or all of the above

File Description	Documents
Upload the data template	View File
Upload relevant supporting document	View File

6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)

The NorthCap University has taken the necessary steps to strengthen the quality in academics and administration. The steps considered are in sync with the recommendations made by the last NAAC peer team visit

1. Improvement in Teaching and Learning with Focus on Digitisation

Adoption of online teaching platform 'Microsoft Teams' after lockdown.

- Academic collaboration with Arizona State University, USA and Mages Singapore for international exposure to students, enriching curriculum, joint research projects etc.
- Introduction of new programmes like BCA, BA English and specialisations like Artificial Intelligence, Blockchain etc.
- Scheme Upgradation of UG programs to align with emerging market needs. Introduction of more liberal courses in line with NEP-2020 through open electives
- Improving practical content in curriculum by field visits, guest lectures, case studies, moot courts, mini-projects, etc.
- Enhancing Digital Learning Assets with new LMS Platform- CANVAS
- Encouraging self-directed learning through credit transfer of MOOC courses from portals like Swayam, NPTEL, Coursera, etc.
- Upgrading library with more e-resources for online access.
- Special focus on improvement of slow learners through mentor-mentee process, e-portfolio management, VAC and skill-based workshops.
- Parent Information System for monitoring curricular and extracurricular progress of wards. In house development of e-portfolio management system and venue booking software.
- An online examination platform from Mercer Mettl offering AI proctored services for timely evaluation and declaration of result.
- Implementing of a unified Student information system- Camu by Octoze Technologies Pvt Ltd. (under progress).
- Inclusion of Community Service in Academic Scheme

2 Training and Development of Faculty

- Training by Industry experts and AICTE funded FDP's.
- Off campus Design Thinking workshop for implementation of design thinking module in curriculum.
- Faculty mentoring scheme by eminent professors and industry experts.
- National/International Travel Support to encourage faculty for attending conferences, workshops and seminars.
- On an average 65% faculties have been upskilled through FDP's in last five years.

3. Research and Innovation

- Financial support for students and faculty for innovative projects through Vice Chancellor Innovation Fund Scheme.
- Hiring of Director-Incubation and Startups.
- Encourage faculty to carry out quality research and quality publications through 360-degree appraisal mechanisms.
- Scopus/WOS indexed publications (1071) and sponsored projects (12) in the last five years. Over 50 MoU's and collaboration with

Industry/foreign universities for collaborative research.

- Turnitin Software for Plagiarism check.

4. Physical Infrastructure

- Establishment of Daikin Centre of Excellence in Mechanical Engineering.
- Establishment of Tinkering and Makers-space lab for experiential learning. Thought Lab was established to help students overcome psychosomatic challenges. High end computing labs with iMac and i7 machines.
- NAVIC Lab set up by ISRO.
- State-of-art Smart-Classroom equipped with digital technology to create virtual experience. State-of-art Gymnasium.
- E-Vehicle facility at the Automobile Lab.
- Ministry of Earth Sciences has selected NCU for setting up an Automatic Weather Station.

5. Medical Facilities

- Covid-19 vaccination drive in partnership with Columbia Asia Hospital for its staff and their family.
- Free Eyesight checkup, breast cancer checkup, blood donation etc.

File Description	Documents
Upload relevant supporting document	View File

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

On the path to gender equality, we need gender equity. Gender equity is critical to addressing bias and thus creating a positive and inclusive workplace atmosphere. At NCU we promote inclusivity and equal opportunity to all with no bias on gender. Various gender equity initiatives taken up by university are as follows

1. Women occupy senior positions such as Head of department, Controller of Examination, Controller of Accounts & Finance, Librarian and Deans. They are also nominated as members of the Internal Quality Assurance Cell, Board of Studies, Academic Advisory Board, Academic Council and Board of Management.
2. Internal Complaint Committee is constituted as per Vishaka Guidelines to address issues related to sexual harassment and discrimination and to promote gender equality at workplace. ICC ensures proper complaint resolution in a time bound manner maintaining confidentiality and resorting to punitive actions as per the guidelines. It conducts gender sensitization programs to give effect to a policy of zero tolerance on campus for gender based violence and harassment.
3. Celebration of Women's Day at NCU enables us to spread gender equality among employees and students. Various extracurricular activities, games, talk shows are planned to initiate the discussions around gender sensitization and to honor the theme #BalanceforBetter.

4. Grievance Redressal mechanism is in place to address and provide resolution of any complaints of employees and /or students at the workplace.
5. School of law of the university offers an elective course on gender justice and feminist jurisprudence in their curriculum which inculcates amongst students the sensitivity towards gender.
6. Common Rooms for girls and boys with television, books and other generic lounge furniture for socializing are available in University Campus

File Description	Documents
Upload relevant supporting document	View File
Annual gender sensitization action plan(s)	https://assessmentonline.naac.gov.in/storage/app/hei/SSR/106265/7.1.1_1636457084_6638.pdf
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	https://assessmentonline.naac.gov.in/storage/app/hei/SSR/106265/7.1.1_1635578230_6638.pdf

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
Upload relevant supporting document	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Solid Waste Management:

The university garbage is handed over responsibly to the municipal corporation of Gurgaon (MCG) for the proper disposal of the same. No hazardous waste is produced on campus. A 100 KLD sewage treatment plant has been installed in the campus to ensure zero discharge to municipal sewer lines with plans to sustain campus irrigation requirements of horticulture from treated water. We started off with a behind-the-scenes kitchen waste composting program, which included scraps from food preparation and also food waste left on plates from the dining hall. Earlier this year, we expanded our composting program by switching from disposable plastic to 100 percent plant based compostable tableware for all catering. Last year we sent over 20 tons of organic material to be composted.

Liquid waste management:

Sewage generated on campus is a type of wastewater that requires attention since the volume is rising yearly with the increment of students intakes. Campus sewage has BOD and COD not higher than ~600 mg/L and ~700 mg/L, respectively. The presence of heavy metals such as barium (Ba), iron (Fe), copper (Cu), Strontium (Sr), cadmium (Cd) and lead (Pb) have been identified in campus sewage. Other than that, the occurrence of organic contaminants such as phenols is also detected in campus sewage which has the tendency to be transformed into micro pollutants. Various techniques have been tested and used to treat campus sewage which can be grouped into physical, chemical, biological, and combination treatment systems.

- NCU has implemented a Sewage Treatment Plant (STP) for water recycling. The recycled water is getting used for flushing and horticultural purposes.
- Biological treatment including Bioaugmentation and phytotreatment are preferred over other physical and chemical methods

E-waste management:

Disposal of e-waste is an emerging global environment and a public health issue. All loosely discarded e-waste is collected at the university and handed over to external vendors. E-waste is segregated and reused where relevant or else the e-waste is recycled to external vendors. The University also has association with Attero Recycling Pvt. Ltd, India's largest E-waste management company for proper disposal of e-waste materials

Waste Recycling system:

- Garbage - The University garbage is handed over responsibly to the Municipal Corporation of Gurgaon (MCG) for the proper disposal of the same.
- Garden waste - Dry leaves from garden is used to make manure at the backside of cricket lawn
- Kitchen waste - NCU cafeteria generates 90 kg/d of kitchen waste. "Vermicomposting" is used to recycle this waste into manure

File Description	Documents
Upload relevant supporting document	View File

<p>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</p>	<p>A. Any 4 or all of the above</p>
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File Description	Documents
Upload relevant supporting document	View File

<p>7.1.5 - Green campus initiatives include</p>	
<p>7.1.5.1 - The institutional initiatives for greening the campus are as follows:</p> <p>1. Restricted entry of automobiles</p>	<p>A. Any 4 or All of the above</p>

2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

File Description	Documents
Upload relevant supporting document	View File

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

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

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

A. Any 4 or all of the above

File Description	Documents
Upload relevant supporting document	View File

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.

C. Any 2 of the above

File Description	Documents
Upload relevant supporting document	View File

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)

Cultural harmony connects people of different backgrounds through social behaviour, religion, customs, traditions, faith, knowledge, language etc. The NorthCap University showcases and respects these diversities which are reflected through the various activities and practices undertaken in various clubs and societies. This not only provides freedom of thoughts and ideas but also integrates differing views and perspectives in an amicable fashion which is true to the Indian constitutional values and its culture espousing the spirit of 'EK BHARAT SRESTH BHARAT'.

The National Social Service (NSS), NCU Chapter is a platform that provides opportunities to the students to participate in various government aided community service activities & programmes. The members of the Society work on Skilled Literacy Program (Start-Up India Campaign), Swachh Bharat Abhiyan and many other government initiatives.

Rotaract NCU Club boasts of over 100 Rotaractors from all three schools of the University. Club organises visits to old age homes in Gurugram, awareness campaigns on social and health issues.

IEEE- Humanitarian Activities and Social Service Wing has taken several initiatives for the welfare of the society. Be in involvement in PES Zero Hunger Day, or conducting webinars on special causes during the Lockdown period, Water and Forest Conservation drives Synergy, Webinar on COVID-19, Expressions 2020, Webinar on Breast Cancer Awareness.

The Society for the Promotion of Indian Classical Music and Culture Amongst Youth, (SPIC MACAY Chapter), promotes Indian classical music, Indian classical and modern dance forms.

Momentum is the Annual Cultural Fest of the NCU spanning over three days, a vibrant exhibition and amalgamation of technical and cultural events which generates great enthusiasm and cheer among the students and staff. Teams from various colleges and universities compete with zeal and enthusiasm during this fest. In 2020-2021 it was organised in virtual mode.

File Description	Documents
Upload relevant supporting document	View File

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

NCU endeavour's to create and nurture a learning environment rooted in the sacrosanct values of the Indian Constitution. Considering it to be the University's paramount responsibility, NCU strives to sensitize its students and employees to the Constitutional obligations: values, rights, duties, and responsibilities of citizens, through a myriad of ways.

NCU organizes Constitution Day or National Law Day on 26th November every year, inspiring the students to cherish and imbibe the noble ideals that laid the foundation of our Country.

We also take pride in our vibrant and thriving Constitutional Law Society set up in 2020 to promote Constitutional values across the University. The society is continually working to demonstrate the benefits of applying the Constitutional virtues in personal and professional spheres. .

Our dedicated and passionately active Legal Aid Society works in association with the District Legal Services Authority and National Legal Services Authority and has successfully organized various legal aid camps and webinars raising community awareness regarding our Fundamental Rights and Duties.

As the nation battles the unfortunate and unprecedented covid-19 wave, NCU students and staff stepped forward in the wake of our constitutional morality and duty, to organize a food distribution drive. The Legal Aid Cell, NSS, and Rotaract Club have also set up health check-up camps. These

activities develop fraternity and responsibility towards fellow citizens.

Constitutional values is also traditionally delivered to the students through a compulsory course on Human Values and Ethics. This further broadens the students' intellectual and emotional horizons. Moreover, Constitutional Law is taught as a compulsory course across two branches of the University, namely School of Law and School of Management.

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. 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 Code of Conduct are organized

All of the above

File Description

Documents

Upload relevant supporting document

[View File](#)

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

The NCU has been actively involved in celebration of various International and National Days to commemorate their significance and could be lessons that can be utilized while facing future challenges. Indian festivals are celebrated in their usual vibrant setting of joyful sharing and caring environment remembering the victory of good over evil

The Independence Day during the year 2020-2021 has been celebrated maintaining certain preventive measures such as maintaining social distance, wearing of masks, proper sanitization, avoid congregation and follow Covid appropriate behavioural norms as issued by the Ministry of Health & Family Welfare.

The Teachers Day on 05 September provides a platform to the students to leverage the relationship beyond formal classroom teaching and bring forth their meaning of 'GURUR BRAHMA GURUR VISHNU'.

World Environment Day "The green we sow, the more we grow", with the will and dedication, the NCU celebrated the World Environment on 5th June 2021.

National Science Day To pay tribute to the Nobel Laureate Sir Chandrasekhar Venkata Raman for his invention of the Raman Effect through his experiments on the scattering of light and to spread the message of the importance of science and its application, the National Science Day was organized on 28 Feb 2021. UG, PG and PhD students of the University demonstrated their innovative ideas/research findings in the form of science projects, models and posters. Some of the main projects on display were the IR Radar, Aquarex, metal detector, and water quality checker.

The International Yoga Day, celebrated on Summer solstice is attended by staff and students and every year it is gaining popularity because of its health benefits and pride associated with recognition of Indian Traditional Knowledge and Practices. The students have been coming forward

in organising and conducting these events as per the prescribed protocol.

World Telecommunication and Information Society Day is celebrated on 17th May in collaboration with Institution of Engineers (India)- (IEI) society , Faridabad. It elaborates the standardization in the telecom industry and role of International Telecommunication Union (ITU) , the specialized agency for information and communication technologies - ICTs. NCU is committed to connecting the entire world's people - wherever they live and whatever their means.

File Description	Documents
Upload relevant supporting document	View File

7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

1. Title of the Practice:

Promoting Academic Excellence and Enhancing Employability Through Experiential Learning

2. Objectives of the Practice: (100 words)

- To purposefully engage students in application of theory and academic content to real-world experiences, either within the classroom, the community, or a company.
- To help students develop transferable competencies and the ability to articulate them, to help them transition to professional life successfully
- To teach students to seek skill improvement through discipline or industry-specific application and complete projects which are evaluated with feedback by the experience provider (Industry mentors).
- To enhance learning outcomes of students and encourage reflection and application of skills and knowledge in contexts that prepares students for the workplace and civil society.

3. The Context: (150 words)

Experiential learning aims for student achievement in three primary goals, the ABC's of the student experience:

- Agency: Students should feel the ownership of their learning process and are empowered to actively engage with teachers and peers. They are creative and resourceful having faced challenges in their learning. In addition the challenge for fair evaluation increases as the higher order thinking skills of Bloom's taxonomy need to be tested. There is a need to define rubrics before assigning the tasks.
- Belonging: Students should feel connected to the content, their classmates, their teachers, their communities and the wider world during their learning course and during their professional career. This involved setting up linkages with industry and the real world.
- Competency: Students should be able to apply their knowledge and

skills to a wide array of contexts, both within the subject and to diverse future experiences. The challenge was to bring students abreast with the latest technologies and teach them to think out of the box

- With this background, it has been decided to make Experiential learning an integral part of the curriculum. At least two to three courses per semester were identified which were mapped with experiential components

4 The Practice:

At The NorthCap University we have created a list of definitions that reflect the different ways that experiential learning can be implemented in courses and/or programs. Some of them are listed below and a case study for each is provided as proof in the link. At the beginning of semester each department shall identify various experiential activities to be associated with each course. The course teacher, during the delivery of the course would ensure a strong emphasis on the theoretical background and demonstration of application of theoretical concepts through experiential learning component. The rubrics for these courses are well defined and students are informed at the inception of semester. The mode of evaluation can be internal or through external (academia, industry). Some of the experiential learning components incorporated in courses by departments are as follows

- Industry Visits and Field Experience Project based Courses
- Projects Evaluation through Industry Experts
- Supplementary online courses (NPTEL, Coursera, Udemy etc.) Peer Tutoring
- Courses coverage with Industry experts Research Work
- Field experience Case Studies Internships
- Competitions (Moot Court)

Certification from CISCO, CIMA, AWS and ORACLE enhances the skill set of students in line with Industry Needs.

The pedagogical principles involved in experiential learning are:

- **Authenticity:** Students understand their motivations for taking a course and learning the content. They can articulate connections among their learning experiences. The course provides a meaningful experience within the context of the student's goals and course outcomes.
- **Relevancy:** Students understand the content as relevant to their own lives. Assessment is formative – it is used to support the learning process and guide changes to teaching strategies.
- **Connecting Experience to Future Opportunity:** Every experience a student has had up to this point influences how they learn in this current moment. Students develop reflective skills that enable them to translate their learning into future opportunities. They take up either site visits or working projects or research based reviews relevant to the course content which make the learning process even more interesting for everyone involved.
- **Active Learning:** Students are fully engaged (mentally, physically, emotionally) in the active process of learning. Instead of passively receiving content, students are co-constructing knowledge with their

teacher and peers. They are actively testing, thinking, challenging, hypothesizing, interpreting and reflecting on the course material.

5. Evidence of Success: (200 words)

The attainment of course outcomes, taught through Experiential Learning is high, compared to other courses

For example:

In Dept. of CSE a Course CSL 374, Microservice Based Applications was covered by Industry Expert as it is based on the latest technology. As part of this course students developed real world applications such as.

- Time Tracking Application
- JIRA Clone Application
- Online Test Management
- Issue/Bug Tracking System

GitHub :

Following are the GitHub repository links of students:

- Manav Taneja: <https://github.com/Manav-Taneja>
- Dheeraj Kaushik: <https://github.com/Dheeraj-kaushik>
- Bharat Singh: <https://github.com/bharatsinghtanwar>
- Akshay Makkar: <https://github.com/akmak1103>

Students are doing internships in multinational IT companies like Fidelity, Danalitic India, Ansys Consulting. This has enhanced employability also as internships led to Pre-placement offers.

- In another course CEL407 Ground Improvement Techniques. The experiential learning component introduced in the course was to visit a ground improvement site (Field Experience) convenient to the students and they were asked to do this activity by forming a group of three to four members.
- Employability has also enhanced as the number of companies visiting for campus recruitment has increased in the last 4 years
- Problems Encountered and Resources Required

The students pursuing BBA and BCA are not interested in employment and prefer to go for higher studies. So these students are not employable immediately after their graduate studies. The problem one could face in experiential learning is lack of interest in the subject matter. However, learning through experience which is the soul of experiential learning makes sure that one develops enough interest in the subject matter and gains expertise in the same. It makes learning fun by providing hands-on experience along with the theory. Also, one does not require huge resources in most of the cases except for certain instances where equipment may be required to try hands-on activities.

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)

The NorthCap University has a well-established Master Jagannath Centre of Excellence & Incubation (MJCEI) to "To Promote the spirit of Innovation and Entrepreneurship". NCU STICTH is one of the Innovation and Startup programs under MJCEI (Techno-Business) for fostering innovations and nurturing tech & non-tech start-ups. It administers a business incubator which provides 'Idea to Company' support for entrepreneurship and facilitates the conversion of ideas into startup ventures. NCU STICTH has come up with a robust Innovation and Startup Policy that offers opportunities and support to maximize success.

NCU Incubation Centre has also been recognized by MoE's Innovation Cell, Govt. of India for establishing Institution Innovation Council. This cell has been striving since its inception.

- To create a vibrant local innovation ecosystem
- To strengthen start-up supporting Mechanism
- To prepare the institute for ARIIA Framework. NCU has ranked in Band A for the year 2020.
- To establish a functional ecosystem for scouting ideas and pre-incubation of ideas.
- To develop better cognitive ability for technology Students.

Around 70 events have been organised under the IIC cell during the last one year to encourage, inspire and nurture young students. The list of events with few sample reports is provided in the link.

The objectives of the Innovation and Startup Program in THE NORTHCAP UNIVERSITY are in the following four aspects.

- Cultivating the spirit of entrepreneurship

The spirit of entrepreneurship is the conception and ideology of starting a career, the state of self-reliance, hard struggle, achievements, and contributions, and it includes the following three aspects

- The spirit of self-reliance and enterprise
- It is the support of triumph in entrepreneurship.
- It is also the spirit of being a master in controlling destiny, displaying subjective initiative, and striving to realize dreams.
- Strengthening three kinds of professional qualities
- Leadership
- Expanding ways to employment
- Risk-taking
- Teamwork

As a choice of occupation, entrepreneurship is a way to employment. Faced with a tough job market, it is of necessity to develop Innovation and Startup Program in THE NORTHCAP UNIVERSITY so that NCU STICTH students can obtain some knowledge of founding small business and professional qualities which are needed by entrepreneurs.

- Bearing a part of quality-oriented education.

In fact, developing Innovation and Startup Program is a part of developing quality-oriented education and it is the support and concrete reflection of quality-oriented education in THE NORTHCAP UNIVERSITY.

Some of the activities organised under MJCEI (Techno-Business Incubation Centre) are as follows:

1. Over 5 training programs were conducted for the budding entrepreneurs of NCU under Startup challenge. 20 Startups came up with their pitches. 2 rounds of competition resulted in 5 promising startups ideas. 5 startup ideas were pre-incubated.

- Main Bhi Karamchari
- Workoholic
- GMBot
- Audiovocab
- Coopern

Coopern started building traction within three months of the pre-incubation

1. Smart India Hackathon 2020 (University Level) was conducted in two categories Software and Hardware January 27-29, 2020. Total 40 teams (32 software and 8 Hardware) from all departments presented their ideas and prototypes against "38 Problem Statements" of SIH 2020. 8 Software teams and 6 Hardware teams represented NCU in SIH 2020. One team with project title "Swacchta Prabandh" won in SIH 2020.
2. Toyachthon 2020 Challenge - 8 Faculty, 52 students took part in the drive, 13 Teams successfully submitted their Ideas and 1 team got shortlisted among 18000 teams.
3. 1st Startup Idea Challenge April, 2021 - Around 53 startup ideas were successfully shortlisted from which 10 startups ideas won the challenge. 5 teams have been pre-incubated. Pitch Competition due in Dec. 21 for raising pre-seed fund from VCIF.
4. International Idea2Business Competition, Indonesia - NCU Team Won 2 Awards amongst 500+Participants, 30 Universities, 12 Countries & 2nd winner in Best potential Impacts on Social Issues, 3rd in Best Potential Growth and Scale up

The funding from VC Innovation Fund acts as an initial grant to nurture ideas, innovations and to convert them into successful startups. A fund of Rs.10 million is allocated for the innovation and start-up activities by the University. The use of the VCIF fund is to shape meaningful research that can potentially attract funding from outside agencies and industries in the future. The innovation fund would also support novel and innovative undergraduate projects that may or may not directly yield outcomes in the form of patents or research publications

7.3.2 - Plan of action for the next academic year

- To be recognized among top private universities of India by attaining higher ranks in NAAC, NIRF, IIC, NBA, ARIIA, QS-Star etc.
- Complete automation of academic & nonacademic procedures with a focus on streaming all the activities.
- Creating an USP through various centers of Excellences & Specialization programs.

- Creating an Innovation culture at NCU with focus on innovation and entrepreneurship related activities at NCU.

- Creating world class infrastructure with focus on digitization & virtualizations.
