



# **SELF STUDY REPORT**

**FOR**

**2<sup>nd</sup> CYCLE OF ACCREDITATION**

**THE NORTHCAP UNIVERSITY**

**HUDA SECTOR-23A GURUGRAM- 122017  
122017**

**[www.ncuindia.edu](http://www.ncuindia.edu)**

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**BANGALORE**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

Since its inception, The NorthCap University (erstwhile ITM University) is known for delivering high quality of education that transforms lives, forges alliances to handle the new world order locally and globally. ITM affiliated to M.D.U, Rohtak (later on upgraded to ITM University) was established in 1996 to promote excellence in Technical and Management education by Educate India Society. Registered under the Registration of Societies Act of 1860, ITM acquired University status vide Act 25, 2009 enacted by Haryana state assembly.

The NorthCap University (NCU), has emerged as a self-reliant, multi-disciplinary, digital first University with more than 3000 students studying on its 10 acres clean and pollution free campus located in the millennium city of Gurugram, having 11000+ alumni placed in prestigious companies in India & abroad. The University is recognized by the UGC, and BCI, Government of India. The university offers industry and socially relevant education in the disciplines of Engineering, Management, Applied Science, Law and Liberal Studies.

NCU has earned itself a place among the top universities in India for its academic offerings with QS 4 stars overall and a perfect 5-star rating in Teaching, Employability, Online learning, Academic development, and Inclusiveness from Quacquarelli Symonds(QS), the global rating agency in 2021.

NCU achieved a new milestone in the innovation by being ranked in Band "A" in the Atal Rankings of Institutions on Innovation & Achievements (ARIIA). Further, the NIRF ranking 2021 has placed the University at 97th position, in Engineering category and in the band of 151-200, in University Category.

NCU is committed to the green movement and has 6 acres (60 percent) of green area. The university has been declared the winner of the HUDA garden competition in Gurugram for the 17th consecutive year. The University has been ranked 5th in All India 'Swachhta' Ranking 2019 under Non-Residential University Category, by the Government of India. Our dedicated cell for Social Entrepreneurship, Swachhta & Rural Engagement, is recognized for environmental friendly practices with a spirit of community engagement. The university has won 'One Green One District Champion Award' for clean and green surroundings by Ministry of Higher Education in 2021.

### 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 multi-disciplinarity 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

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

- A Private State University established vide Act 25, 2009 by the State Legislature of Govt. of Haryana and approved by the UGC and BCI with highly committed Governing body members focussing on setting quality standards.
- Accredited by Accreditation Services for International Colleges, UK as a premier university with 'commendable grades' (2016-2020)
- To achieve the Vision, the university management has been investing continuously in developing state-of-art infrastructure, upgrading lab facilities, IT Infrastructure for teaching and cocurricular activities.
- A decentralized, participative and transparent functioning with high speed decision making.
- Involvement of industry experts and eminent academicians in designing and revision of curricula with emphasis on project based learning and experiential learning.
- Flexibility to review and amend the curriculum on a regular basis, through a well-established process of industry academia participation, vetting through Board of Studies and Academic Council.
- A choice based credit system with continuous evaluation, relative grading, duly moderated after evaluation through a credible examination system.
- Efforts to develop the students holistically, through value added courses, self-development programmes and co-curricular activities.
- An equal opportunity institution of higher education, encouraging meritorious as well as needy students, through award of scholarships to students from Economically Weaker Section(EWS) of society
- A stringent faculty selection process with good compensation and enabling HR policies, which have attracted highly qualified research oriented Senior faculty members for teaching and mentoring.
- State-of-the-art digital infrastructure and deployment of Learning Management System (CANVAS) enhances learning experience and employability of students.
- A system driven university with ERP modules for all major functions of the University and a desire to continuously improve the systems through quality processes, monitored by IQAC and a robust feedback system.
- Progressive average salary package, achieved through the School of Professional Attachment, ensuring internships and placements in leading companies successfully.
- A transparent and well documented admission procedure, with selections based on merit of marks obtained in relevant national level examinations.
- Increasing trend in the number of publications, citations and sponsored projects. The institute has recruited well qualified faculty members with PhD qualification.
- Emphasis on imbining social responsibility among all students through mandatory courses on Community Service and outreach programs.

## **Institutional Weakness**

- Non residential campus. Hostel facilities are provided outside the campus to outstation students.
- Low diversity of students from across the country and abroad.
- Being a private State University, it does not elicit adequate research funding from govt. agencies, despite a number of viable research proposals regularly submitted to concerned agencies.
- Unable to fill up seats in UG/ PG Engineering programme other than Computer Science & Engineering due to current market trends.

## **Institutional Opportunity**

- Exploit the locational advantage of the University to have Collaborations with reputed industries in specialized domains and run MDPs/ Executive Programmes, relevant to their domain.
- Opportunity through Global linkages to offer joint certification programs and attract international students.
- Opportunity to boost collaborative research with Arizona State University and other foreign universities under Cintana Education Network, USA
- Development of high-quality course contents for Massive Open Online Courses (MOOC) using smart classrooms and lecture recording facilities.
- Growing numbers of alumni need to be networked for mentoring students, organising industry visits and improving placement opportunities.
- Undertaking multidisciplinary projects by involving students from different schools and depts.
- Opportunity for students and faculty exchange under active MoUs with foreign universities.
- Being a multi-disciplinary university opportunity to launch more integrated programmes in emerging areas.

## **Institutional Challenge**

- The increasing competition among Private Universities mushrooming in the region brings challenge in terms of admitting meritorious students.
- Due to non-residential campus admitting students from other states is a challenge.
- There is great uncertainty in industry requirements owing to COVID-19 in the coming times. The shift towards online teaching abruptly and developing innovative techniques to engage learners constructively and make them industry ready is a challenge.
- Reviving interest of admission seekers in core branches of Engineering and Technology other than CSE.
- It is challenging to engage students' attention in online classes for too long.
- Conduct of practical classes in core engineering branches through online mode has been a challenge due to covid restrictions.

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

The curricula and syllabi have been structured and designed as the **Learning Outcome Based Education** frame work. The **Choice Based Credit System** is followed ensuring opportunities for the students to learn courses of their interest, relevant to the global, national, regional and local needs. The **programme educational objectives, programme specific outcomes** and course outcomes are meticulously designed in consonance with **graduate attributes** of **National Board of Accreditation**. The curricula structure is in line with the **AICTE model curriculum** with focus on holistic development of the students towards **skill development, employability** and **entrepreneurship**. The multidisciplinary approach is nurtured with introduction of **open elective courses**. Some of the significant aspects of curricula design and development include the following.

- Introduction of specialization in B.Tech programmes in the emerging areas – **Artificial Intelligence, Cyber Security, Block Chain Technology, AR/VR and Gaming technology, Data Science, Full stack Development** and **Robotics and Automation**
- Increased weightage for **project based learning** to improve **skill development** and practical knowledge
- Inclusion of life skills and Meditation conducted at the brahmakumari's 'Thought Lab' established in the campus premises
- Option for the students to learn **foreign languages** - German, French and Spanish
- Inclusion of **Universal Human Values and Ethics** with focus on the four weeks orientation and induction programme for all students
- Focus on the holistic development by integrating the academic knowledge, interdisciplinary skills, analytical skills, personality development, social and ethical values
- Experiential learning provided through field visits, guest lectures and workshops
- Self-paced learning through LMS and MOOC Integration
- Course coordinators are free to choose teaching pedagogies to meet course outcomes.
- Project based learning through tinkering lab, maker-space (automobile design lab) and Vice Chancellor Innovation Fund Scheme
- Human Values and Professional Ethics courses into the curriculum
- Mandatory General Proficiency courses for all round development
- Mandatory Industrial training/internship
- Events/sessions regularly conducted for NSS / Yoga / Gender Sensitization /Environment and Sustainability / Carrier Counselling / Pre-Placement Interviews / Campus to Corporate sessions/Institution Innovation Council(IIC)
- Personality development through effective communication courses/Language Lab / Foreign Languages/Soft Skills training
- Students / Alumni / Industry / Faculty / Parents feedback analysis/Result Analysis

### Teaching-learning and Evaluation

The **pedagogy** of teaching assesses the learning levels of the students and ensures the best learning outcome for advanced learners, average learners and also slow learners. The learning is **student centric** and **participative** with innovation in both learning and assessment. ICT tools, CANVAS LMS and online resources are effectively utilized for a self-paced learning. The integration of Information Technology through has resulted in automation of course registration, examination registration, admit-card generation, online examinations and result publication through Mercer Mettel Software used for conduct of AI proctored exams. A few distinct practices of teaching learning and evaluation are -

- Teaching learning in flipped classroom and hybrid mode

- Online course registration and delivery of course on Microsoft Teams platform
- Effective and periodic feedback mechanism
- Experimental and experiential learning opportunities
- E-books and E-journals in the Central Library with remote access
- Complete adherence of academic calendar
- Moderation of the question paper quality and evaluation transparency
- Special supplementary examinations
- Cash reward to meritorious students featuring in the Dean's List as per NCU policy
- Student's Information System (SIS) CAMU is used for managing Student's data base and capturing the student's life cycle during his stay on campus for his enrolled program
- Capturing the strength of the students and complement the learning process by creating a student e-portfolio system
- Implementation of Choice based credit system (CBCS), Value Added Courses (VAC), and skill-based modules
- Mentoring and counselling
- Peer tutor scheme and provision of summer semester
- Integration of design thinking modules
- Beyond the classroom learning through various professional clubs and societies
- 100% ICT enabled teaching learning process
- 65% of full-time faculty members are PhD holders
- Focus of faculty members on research and innovation
- Centralized conduct of Internal and End-Semester Examinations
- ERP integration and automation in the examination procedures and processes
- Timely declaration of results
- Transparency in the evaluation process leading towards less than 1% complaints/grievances
- Detailed analysis of examination results each semester for further improvements
- Very high pass percentage in last academic year

## Research, Innovations and Extension

Research, consultancy and innovation are nurtured with well-defined consultancy policy. The faculty members across the departments engage in consultancy, sponsored research and collaborative research with foreign universities steered by the office of the Dean RDIL.

## Significant achievements

- **Seed money for research** is granted under Vice Chancellor's Innovation Fund
- Research activities have resulted in 28 published, **three granted patents**
- Good number of publications, books, book chapters in Scopus and WoS indexed journals
- Industry sponsored Centres of Excellence with Daikin Airconditioning, MACE, Navic Lab, ISRO, IBM, Mitsubishi Electric India Pvt Ltd, Delta Power Solutions India Pvt Ltd, Beijing Wave-Spectrum Science

and Technology Co China, CADD Centre, Power Grid Corp of India have been established to promote research and training on campus.

- University Fellowships for full time Research Scholars based on merit
- Central Research Facility maintained with latest equipment
- Financial support for International Conference Presentations
- Scholars are awarded Fellowships from DST/UGC/DBT/SERB.
- Successfully completed 10 sponsored research projects worth of Rs.1.66 crore during 2014-2020.
- Biosensor lab sponsored by SERB project under YSS scheme.
- The Techno-Business Incubation Centre help in incubating innovative ideas by cultivating skills like critical thinking, problem solving, knowledge creation since 2017.
- Students won awards in International Idea-2-Business Challenge in 2021
- The Vice-Chancellor's Innovation Fund scheme help to develop innovative projects and conduct research
- As a demonstration of these efforts NCU was categorized as band 'A' institution in the 'University Category' in ARIIA 2020
- Well defined consultancy policy is in place
- Total amount of one Crore generated from consultancy and corporate training during last five years.
- Extension activities are carried out through extra-curricular and co-curricular means.
- The University has 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, Enactus, Rotary club, etc.
- The University has excellent indoor games and outdoor sports facilities.
- Collaborative activities with other institutions & industry for research and academic development of faculty and students are encouraged through various activities including summer internship, guest lectures, workshops, conferences, student exchange programmes.
- Collaborative research and co-teaching conducted with foreign universities in Mexico, Ecuador and Khazakistan

## Infrastructure and Learning Resources

The infrastructure established in an area of 10 acres has all facilities for the development of students and professional growth of faculty members. It has a play ground with athletic track, gymnasium, basketball, badminton and tennis courts. It has ambulance, health-care centre, bank with ATM facility, Café and canteens.

- Adequate air-conditioned classrooms, tutorial rooms, labs, and workshops with Wi-fi and LAN enabled with 24 X 7 power backup.
- LCD display boards all over the campus.
- CCTV surveillance system for enhanced security
- A 430-seat state-of-the-art auditorium with well-equipped green rooms.
- Seminar Hall and three conference/meeting rooms, MOOT court.

- Techno Business Incubation Centre, Tinkering Lab, Maker's Space (for automobile designing), and Design Center.
- Cloud based ERP & Student's Information System.
- Open-air Amphitheatre.
- Separate parking space for students and staff.
- Off campus boys and girls hostel
- Barrier-free environment for differently abled.
- 'Libsys 10.0' with Fully automated Web OPAC software.
- Digital Library functions 24 x 7 on all the 365 days.
- 20 dual-core machines with printer and scanner facility in the Multimedia Section of the library.
- Member of various national and international repositories.
- LIRC subscribes to various e-books and e-journals databases (EBSCO)
- Several Department Libraries
- The Library has also been provided Turnitin software to check plagiarism.
- Regular information on 'New Arrivals'.
- Student – computer ratio is less than 3: 1 and the allotment ratio in the lab is 1: 1..
- Repository of recorded lectures and NPTEL lectures
- VPN provides 24X7 access to library resources.
- Biometric attendance for everyone.
- The campus facilities are maintained under AMC for different types of services

### **Student Support and Progression**

The institution focuses on the holistic development and progress of the students. A very good mentoring support is offered across all the departments. The incubation centre, various laboratories, centres of excellence, incubation centre and libraries help the students for continuous learning, working on new projects and innovative ideas and start-up culture.

The School of Professional Attachment(SPA) provides extended hours of training to prepare the students towards successful job offers through campus recruitment program. The sports activities supported by a physical trainer and instructor encourages sports culture on campus. The alumni support the students with scholarship through internships opportunities, placements and mentorship support.

### **Significant outcomes during the last five years**

- Students have won several awards in Hackathons and Start-up challenges.
- Three Best project awards of Rs. 1 Lakh, 75000 and 50,000 for students every year
- 9% of students benefited from scholarships and freeships provided by the institution, Government, and non-government agencies (NGOs) during last five years.
- 87.2% of students benefited from career counseling for competitive examinations offered by NCU during last five years.
- The Institution adopts the implementation of guidelines of statutory/regulatory bodies, zero-tolerance policy, mechanisms for submission of online/offline students' grievances, and timely redressal of the grievances through appropriate committees for redressal of student grievances including



sexual harassment and ragging cases.

- Several students qualified in state/national/international level examinations during the last five years.
- Around 80% placement achieved for eligible outgoing students during the last five years.
- 22 awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national/international events.
- The University has 44 clubs that function at both Departmental and University levels. These clubs fall under four categories- Hobby Clubs, Academic- reinforcement Clubs, Skill Development Clubs, and Community Service Clubs.
- 15 Professional Societies are working at NCU namely IEEE, Computer Society of India, SPIE, Moot Court, ENACTUS, SPACE, OSA Optical Society of America, IEI , EWB , OWASP , ASQ (American Society for Quality) etc.
- The university organized several sports and cultural events/competitions every year
- Alumni act as co-guides of students for industry and other projects.
- Few MOUs with industries are the result of efforts by the Alumni.

### Governance, Leadership and Management

The University has a participative management and delegation of authority. The Management plays the role of facilitator with adequate financial support for the academic and administrative infrastructure. The Vice Chancellor, the Registrar, the Controller of Examination, faculty members and staff follow well laid out processes for effective governance towards imparting quality education in line with vision and mission of NCU.

- A well-established hierarchical structure as per UGC norm.
- Vice Chancellor functions through various statutory bodies and the decisions are taken by involving Deans, directors and HoDs.
- Faculty members are in various committees like **Anti Ragging, IQAC, Research Advisory Committee, BoS, Academic Council and BoM** etc.
- Various sub-committees support the statutory bodies for improvement at the university level.
- **Delegation and Decentralization of powers**
- **E-Governance** implemented in administration, finance and accounts, examination, student admission and support
- **Feedback analysis**, result analysis carried out regularly
- **Welfare schemes** for promotion of faculty and supporting staff
- A Bottom-up approach enables decentralization of management functions
- A strong feedback process from stakeholders through many formal and informal channels is in place.
- Periodical strategic plan are prepared and executed with participation of all stakeholders
- A systematic appraisal process with performance based allowances to motivate and acknowledge employees and
- Well-defined Career Advancement and Progression Scheme for promotion of its staff.
- Various other welfare measures, Social security benefits viz., Gratuity, EPF, ESI and Group health Insurance for employees.
- Financial support to faculty members for attending conferences, seminars, workshops etc.
- Large number of professional development training Programmes organized in-house regularly.

- A well-established Finance Committee, which oversees the budget, financial transactions, planning etc.
- The funds are mobilized essentially through the fee paid by students.
- The internal and external financial audits conducted regularly.
- A well organized and active IQAC as per NAAC requirements.
- Timely submission of AQAR every year.
- Awarded overall "QS - 4 - Star Rating"
- Participation in NIRF(97th Rank Engineering 2021) and ARIIA (Band 'A' 2020)
- Academic Audit every year for improvement in Teaching Learning Process.
- Inculcation of community service scheme in curriculum.
- Collaborations with leading industries.
- A start up culture encouraged through Incubation Centre
- An active Institution's Innovation Council since 2018

### **Institutional Values and Best Practices**

### **Institutional Values and Social Responsibilities**

The institution has taken various measures to produce graduates with holistic development, respect for the fellow human beings, practising ethical values, conscious about protecting the environment and accepting the cultural and other socio economic diversities. These measures are part of the co-curricular and extracurricular activities.

### **Significant and Distinct Initiatives during the Last Five Years**

- Women occupy senior positions such as Vice Chancellor, Controller of Examination, Controller of Finance, Heads of department and Deans and are also nominated as members of IQAC, Board of Studies, Academic Council, Board of Management etc.
- Internal Complaint Committee is constituted as per Vishaka Guidelines to promote gender equality at workplace.
- Solar energy panels installed and Sensor-based energy conservation.
- Use of LED bulbs/ power efficient equipment
- Solid, Liquid and E-Waste Management; Waste Recycling System in place.
- Water conservation facilities like Rain water harvesting, borewell, tanks and bunds, maintenance of water bodies and distribution system available in NCU.
- University encourages Green campus initiatives like restricted entry of automobiles, Use of Battery powered vehicles, Ban on use of Plastic etc.
- Regular audits for environment and energy.
- Cleanest campus and green garden awards.
- Disabled friendly facilities available.
- Tolerance and cultural harmony promoted through Community service activities through NSS, Rotaract club etc..
- Human Values and Ethics taught as part of curriculum and practiced through 'Thought Lab'
- Legal Aid society, National Law day celebration sensitizes all to values, rights, duties and responsibilities
- Awareness programmes on code of conduct and professional ethics.
- Actively involved in celebration of various International and National Days and festivals

## Best Practices

- Promoting Academic Excellence and Enhancing Employability Through Experiential Learning
- Social responsibility through Environment Friendly Practices and Community Service

## Institutional Distinctiveness

- Promotes the spirit of Innovation and Entrepreneurship
- A Well-established Techno Business Incubation Centre to help students incubate new innovative ideas
- Innovation Council recognized by MoE
- A fund of ₹ 10 million is allocated for the innovation and start-up activities by NCU under VC Innovation fund scheme
- One team with project title “**Swacchta Prabandh**” won in Smart India Hackthon 2020
- An ecosystem for scouting ideas and pre-incubation of ideas through start-up challenges

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the University	
Name	THE NORTHCAP UNIVERSITY
Address	HUDA Sector-23A Gurugram- 122017
City	Gurugram
State	Haryana
Pin	122017
Website	<a href="http://www.ncuindia.edu">www.ncuindia.edu</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Vice Chancellor	Nupur Prakash	124-2365811	9910000918	124-2365812	naac@ncuindia.edu
IQAC / CIQA coordinator	C B Gupta	0124-4195200	9414082921	0124-2367488	cbgupta@ncuindia.edu

Nature of University	
Nature of University	State Private University

Type of University	
Type of University	Unitary

Establishment Details	
Establishment Date of the University	28-08-2009
Status Prior to Establishment, If applicable	Affiliated College
Establishment Date	16-06-1995

Recognition Details		
Date of Recognition as a University by UGC or Any Other National Agency :		
Under Section	Date	View Document
2f of UGC	30-04-2010	<a href="#">View Document</a>
12B of UGC		

University with Potential for Excellence	
Is the University Recognised as a University with Potential for Excellence (UPE) by the UGC?	No

Location, Area and Activity of Campus							
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.	Programmes Offered	Date of Establishment	Date of Recognition by UGC/MHRD
Main campus	HUDA Sector-2 3A Gurugram-122017	Urban	10	27441	Twenty		

## 2.2 ACADEMIC INFORMATION

Furnish the Details of Colleges of University

Type Of Colleges	Numbers
Constituent Colleges	0
Affiliated Colleges	0
Colleges Under 2(f)	0
Colleges Under 2(f) and 12B	0
NAAC Accredited Colleges	0
Colleges with Potential for Excellence(UGC)	0
Autonomous Colleges	0
Colleges with Postgraduate Departments	0
Colleges with Research Departments	0
University Recognized Research Institutes/Centers	0

Is the University Offering any Programmes Recognised by any Statutory Regulatory Authority (SRA)		: Yes
SRA program	Document	
BCI	<a href="#">106265 6638 8 1626937784.pdf</a>	

### Details Of Teaching & Non-Teaching Staff Of University

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned	17				33				99			
Recruited	6	6	0	12	3	8	0	11	22	71	0	93
Yet to Recruit	5				22				6			
On Contract	6	1	0	7	0	1	0	1	2	13	0	15

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned				45
Recruited	35	9	0	44
Yet to Recruit				1
On Contract	1	0	0	1

Technical Staff				
	Male	Female	Others	Total
Sanctioned				54
Recruited	53	1	0	54
Yet to Recruit				0
On Contract	0	0	0	0

### Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	6	6	0	3	7	0	12	48	0	82
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	1	0	10	23	0	34

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	4	0	0	0	1	0	1	7	0	13
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	2	1	0	0	0	0	1	6	0	10

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	2	0	1	5	0	8
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	1	5	0	6

#### Distinguished Academicians Appointed As

	Male	Female	Others	Total
Emeritus Professor	2	5	0	7
Adjunct Professor	1	1	0	2
Visiting Professor	1	0	0	1

#### Chairs Instituted by the University

Sl.No	Name of the Department	Name of the Chair	Name of the Sponsor Organisation/Agency
1	No Chair Exists	No Chair Exists	No Chair Exists

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



Programme		From the State Where University is Located	From Other States of India	NRI Students	Foreign Students	Total
Doctoral (Ph.D)	Male	20	14	1	0	35
	Female	76	30	0	0	106
	Others	0	0	0	0	0
PG	Male	56	19	0	0	75
	Female	47	7	0	0	54
	Others	0	0	0	0	0
UG	Male	1598	514	10	0	2122
	Female	619	193	3	0	815
	Others	0	0	0	0	0

Does the University offer any Integrated Programmes?	No
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#### Details of UGC Human Resource Development Centre, If applicable

Year of Establishment	Nil
Number of UGC Orientation Programmes	0
Number of UGC Refresher Course	0
Number of University's own Programmes	0
Total Number of Programmes Conducted (last five years)	0

#### Accreditation Details

Cycle Info	Accreditation	Grade	CGPA	Upload Peer Team Report
Cycle 1	Accreditation	B	2.72	<a href="#">Peer Team Report on Institutional Accreditation-compressed.pdf</a>

## 2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
All Departments	<a href="#">View Document</a>
Applied Sciences	<a href="#">View Document</a>
Civil And Environmental Engineering	<a href="#">View Document</a>
Computer Science And Engineering	<a href="#">View Document</a>
Electrical Electronics And Communication Engineering	<a href="#">View Document</a>
Mechanical Engineering	<a href="#">View Document</a>
School Of Law	<a href="#">View Document</a>
School Of Management And Liberal Studies	<a href="#">View Document</a>

### Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>As envisaged in NEP-2020 , the university believes that the higher education , in line with global trends ,should lead to holistic development of students , should be multi-disciplinary in nature and offer sufficient flexibility to cater to varied students interests and needs. The curriculum development has therefore been done accordingly and in close association with leading academicians, well known industry experts and other stake holders to ensure that the students gain experience and develop skills for solving real life problems, including multi-disciplinary problems. The curriculums of various UG/PG programs in all disciplines in Engineering , Management and Law have been upgraded and restructured. The new curricula have been made more robust, flexible to inculcate problem solving and design thinking approach, with focus on holistic development, multidisciplinary and flexibility. The emphasis is on experiential and hands on learning Some of the steps taken in curriculum development are as follows: • Curricula developed in line with global trends with more courses on fine arts &amp; liberal studies for multidisciplinary education and to develop creativity and sensitivity towards social issues. • Large number of open electives introduced in all program to offer interdisciplinary courses from other</p>
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	<p>Schools/Depts of the University • Specializations based on current and expected market requirements like data sciences , AI&amp;ML, IoT, AR/VR and Gaming introduced in relevant programs, particularly engineering to make our students more employable • Integrated out of class room learning like Tinkering Lab, Incubation Centre, professional society work and moot courts with curriculum to develop problem solving skills and team work. • General Proficiency course compulsory in all programs for holistic development of students by recognizing out of class room development of students through co &amp; extracurricular activities. • Communication courses along with language lab to hone up reading, writing and speaking &amp; also personality development courses for soft skill development • Foreign Language course compulsory in all programs to give global perspective to students. • Courses on Problem Solving and Creative Writing introduced to imbibe innovative &amp; entrepreneurship spirit • MOOC courses integrated into curriculum to develop the capability for self-directed lifelong learning • Industry internship and multiple project work compulsory for all students for hands on experience and understanding industry live situations • Community Service made compulsory for all students to appreciate societal problems and participate in nation building • Compulsory courses on environmental studies , Human values and Professional Ethics to produce well rounded socially responsible citizens • Compulsory course on Entrepreneurship to develop innovative and entrepreneurial skills and motivate students to contribute towards employment generation in the country. • Certification courses in special domains offered to all disciplines to widen the horizons and skill set of students Teaching pedagogy has been upgraded &amp; aligned to above objectives for improving quality. Several Innovations in Teaching Pedagogy have been proposed using hybrid learning model and implemented. The focus is on identifying students' aptitude and also on practical work, industry exposure and hands on experience. Experiential learning has been scaled up across all courses to make learning more relevant to current societal needs.</p>
2. Academic bank of credits (ABC):	The policy for introduction of Academic Bank of Credits (ABC) is under discussion and finalisation at

	<p>the University and this shall be in line with the guidelines of Ministry of Education, Govt. of India as when these are available and a national digital Academic Bank of Credits is established. However, meanwhile certain actions have been take in this direction which conform to the spirit of ABC and to help students interests and these are : 1. Accepting migration cases from other universities approved by UGC. Every year a number of students are admitted at various levels in various programs from other Indian Universities recognising the credits earned by them in their previous University. 2. Students at NCU are encouraged to take up MOOC courses with certification from Swayam / NPTEL portals. These courses are permitted for credit transfer to their respective programs. A number of students are enrolling in these programs for last couple of years with progressive increase and it is planned that about 20 % of the courses shall be brought under MOOC over next three years in a phased manner depending upon the availability of courses on GOI portals and their evaluation processes. 3. Students with one year / two year gap who could not continue the program due to certain financial/ medical / other constraints are being reregistered and awarded full benefit of credits earned previously at the University avoiding any disruption in their education. The University is fully equipped to implement the ABC policy as soon as soon as it is officially notified by regulatory authorities.</p>
3. Skill development:	<p>For achieving full employability, it is important that students are provided additional edge / opportunities to be able to compete for job market. Therefore. NCU has introduced many skill oriented courses based on market demand to provide supplementary skills of their choice to our students. Some of these modules include : Web development technologies, Staad Pro design, Arduino platform, Cadence software for VLSI design, Matlab Applications (Simulink), CAD &amp; 3D printing, CNC Programming, Basic &amp; Advanced Pneumatics &amp; Hydraulics (by Maruti Suzuki), Air-conditioning &amp; Refrigeration (by Daikins) and Automobile Engg. (by BMW) etc. Last year some more courses have been added which include: 1. Product Design and Development 2. Python Programming 3. Adobe Photoshop 4. AWS cloud Certifications - Cloud Practitioner (foundation</p>

	<p>level certification) 5. Placement skill development 6. GNSS 7. NAVIC Disciplined OSCILLATOR 8. Skill development for VLSI industry To ensure hands on learning , a number of new labs/centres have also been set up . Some of these are i)Skill Development Labs in collaboration with industries like Cisco, Maruti, ISRO, Daikin, and so on. ii)Tinkering Lab: Tinkering Lab at NCU is considered as a playground for innovative minds. A collaborative work area packed with components, equipment, tools and software where students of any discipline with a bent for invention and innovation can come together under one roof to give shape to their new ideas. This lab provides a platform for students from all backgrounds to pursue interdisciplinary ideas. Some of these projects are supported through VC innovation fund of the University. iii) New Specialization Labs: Introduction of new specializations and increased emphasis on hands on experience, existing labs have been upgraded and certain new labs have been set up. These include high speed computing lab, cloud computing lab, AR/VR technology development lab and Internet of Things, AI &amp; ML Lab to name a few. To provide support and making these courses truly industry relevant , MOUs have been signed with several institutions including Google , CISCO, IBM , ISRO , Entuple , Maruti , CINA , Coding Ninjas, IIT Bombay , AWS Academy, PMI and many others. Hundreds of students have benefitted from these certifications in terms of enhancing their employability.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>All the program curriculums including engineering , law and management have been enriched with courses on liberal studies and Indian culture. As mentioned earlier , a large number of open electives have been introduced in all program which offer a diverse choice to students . These include courses on Indian History , Indian Arts , Indian constitution , gender sensitization, Indian music . Vedic Mathematics , RTI and number of other courses offering holistic development and linking students to Indian societal concerns . Some other steps include :</p> <ul style="list-style-type: none"> <li>• Community Service made compulsory for all students to appreciate societal problems and participate actively in nation building and appreciating problems of Indian Society •</li> <li>Compulsory courses on environmental studies ,</li> </ul>

	<p>Human values and Professional Ethics to imbibe Indian ethos and produce well rounded socially responsible citizens • Compulsory course on Entrepreneurship to develop innovative and entrepreneurial skills and motivate students to contribute towards employment generation by taking up projects related to social concerns. Partial funding from such projects is provided by University through VC Innovation fund. • Setting up The 'Thought Lab' a project of NCU in collaboration with the Education Wing of RERF (a sister organization of Prajapita Brahma Kumaris Ishwariya Vishwa Vidyalaya) to initiate the students to Indian system of mediation. NCU is the first university in Northern India to set up a 'Thought Lab' a novel concept for stress management and for creating pure, positive and creative thoughts in individuals. It is a unique project aimed to harness the hidden and still untapped inner power of the extra-ordinary resource i.e. the Mind of the individual. The University takes pride in being one of the pioneer institutions in Delhi/NCR to offer this new concept for the benefit of its students. Through this collaboration , courses on Mediation and stress management are being offered to students by trained experts from RERF. • MoU signed with music academy to offer open elective courses in vocal and instrumental music.</p>
5. Focus on Outcome based education (OBE):	<p>NCU's emphasis has always been on outcome based education leading to our students not only becoming more employable but also directly deployable by employers. For this, the concept of experiential learning through a new paradigm in teaching learning process is introduced with project-based learning. This is being done with the close involvement of relevant industry experts in the teaching learning process. The expected outcome of this pedagogical innovation is industry ready graduates who can directly be deployed on the jobs by industry without the need for further rigorous training after graduation. The courses suitable for this mode in the program and in demand by industry are identified for project-based learning. The delivery methodology is also changed to module based to facilitate association of industry experts with course delivery and proper execution of the project work. The work flow in the project-based delivery is as follows: • Association of suitable industry expert at the start of the course. • Project</p>

	<p>identification &amp; assignment jointly faculty and industry expert. • Course delivery jointly by faculty &amp; industry expert. • Weekly / fortnightly progress review of project work. • Evaluation of the outcome through the realized gains in terms of live project and conceptual understanding. Since the project identified is expected to be live industry work and involves conceptualization to design, this delivery methodology is also expected to enhance analytical ability &amp; critical thinking of students as well as produce readily deployable graduates. Further, across all courses in all programs of the University , well established techniques of OBE education, evaluation and monitoring have been introduced. All programs have well defined POs , PSOs and all courses have well thought out COs which are shared with students in the beginning of each course. The student progress is tracked based on these defined objectives . Corrective measures at student level in the class, and course syllabus modification base on feedback from various stakeholders are taken regularly to ensure proper compliance as well staying aligned with current market needs.</p>
6. Distance education/online education:	<p>As per our Private University Act , Haryana distance education is not permitted for private universities. However , the university has take big strides in providing online education to students over last few years , particularly during lock down period. During this period , NCU quickly adopted to the challenge by seamlessly introducing online classes using a professional online teaching platform Microsoft Teams. The process of online delivery has continuously been refined with the issue of comprehensive guidelines for conduct of classes , continuous evaluation including submission of online assignments , quizzes , surveys , case studies , industry internships , moot courts , project work etc. Two extensive six day FDPs ( in summer of 2020 and 2021) focusing on use of digital technologies for enhancing student's online learning experience have been conducted with participation of experts both from inside and outside including international experts. This has given the necessary exposure of various online tools and digital technologies available for enriching students learning experience to our faculty. For evaluations, a professional examination platform from Mercer Mettle offering AI proctored</p>

services and several built-in security features for protecting examination integrity has been used and all examinations and results have been declared in time. The University also encourages students to register for online MOOC courses and allows credit transfer. Further , the University is giving a strong push to digitalization of education and new tools have been put in place . A world class LMS system CANVAS has been introduced to provide support to these efforts . A feature rich Student Information System has also been made operational facilitating digital academic management and dissemination of information to students.

NAAC



## Extended Profile

### 1 Program

#### 1.1

##### Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
20	19	17	17	16
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 1.2

##### Number of departments offering academic programmes

Response: 7

### 2 Students

#### 2.1

##### Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2753	2834	2771	3159	3511
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
582	885	789	891	836
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

## 2.3

### Number of students appeared in the University examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2650	2846	2700	3158	3233
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

## 2.4

### Number of revaluation applications year-wise during the last 5 years

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	0	0	0

## 3 Teachers

### 3.1

#### Number of courses in all programs year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
796	768	657	611	532
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 3.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
115	115	127	122	129
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 3.3

**Number of sanctioned posts year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
159	176	148	160	220
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4 Institution****4.1****Number of eligible applications received for admissions to all the programs year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
3238	3928	3097	3166	5080
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

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

2020-21	2019-20	2018-19	2017-18	2016-17
401	486	365	361	627
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

**4.3****Total number of classrooms and seminar halls****Response: 89****4.4****Total number of computers in the campus for academic purpose****Response: 890**

## 4.5

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

2020-21	2019-20	2018-19	2017-18	2016-17
3501.65	3433.00	3196.98	3839.68	3739.17

NAAC

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - 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 Institution.**

**Response:**

In line with the vision “To be known globally for learning innovations, academic excellence and socially relevant research outcomes” the institute 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 and is done keeping in view the feedback and suggestions received from various stakeholders i.e., students, alumni, faculty, industry experts and AICTE/UGC/BCI/Haryana Govt. guidelines.

Faculty, Board of Studies (BOS), Academic Advisory Board (AAB) and Academic Council (AC) committee are responsible for the curriculum design, improvement and implementation. These bodies include Department Faculty Board (DFB), Dean and HOD’s Committee, external experts (academicians and industrial partners). (Refer flowchart in uploaded document)

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 inputs for design are typically obtained from:

- Stakeholder’s feedback
- Market study/Success/failure reports of programmes
- Market trends/Employers
- Changes in regulatory guidelines
- Model curricula prepared by AICTE

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 AC committee
- 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

Curriculum integrates the academic knowledge, global trends, develops critical thinking, problem solving skills, interdisciplinary skills, personality development, social and ethical values for students with focus on project based learning and experiential learning. Curriculum design is carried out with focus on local, regional, national and global needs.

### Local, Regional and National Needs

- Strong tie-ups 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 (through Thought Lab), Professional Ethics and Environmental courses as per national and regional interest in line with AICTE guidelines.
- Vice Chancellor Innovation fund for innovative and socially relevant projects.

### Global and International Needs

- MoU's and activities with MNC giants are integrated within the curriculum for experiential learning at global level.
- Courses such as Foreign Languages, Effective Communication, International Law, Cybersecurity, etc. provides a global perspective.
- International perspective given by integrating self-learning modules (MOOCs, Virtual Labs, etc.) in curriculum through exposure to international faculties.
- In line with the global scenario, integration of courses such as Big Data, IOT, AI, Virtual Reality and Biomechanics for catering to international job market.
- **Global signature courses/certifications in collaboration with Arizona State University, USA and MAGES Singapore.**

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

### 1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years.

Response: 90

#### 1.1.2.1 How many Programmes were revised out of total number of Programmes offered during the last five years

Response: 18

#### 1.1.2.2 Number of all Programmes offered by the institution during the last five years.

Response: 20

File Description	Document
Minutes of relevant Academic Council/BOS meeting	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Details of Programme syllabus revision in last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

**Response:** 82.9

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

2020-21	2019-20	2018-19	2017-18	2016-17
701	623	578	486	414

File Description	Document
Programme/ Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

**1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.**

**Response:** 24.61

**1.2.1.1 How many new courses were introduced within the last five years.**

**Response:** 828

**1.2.1.2 Number of courses offered by the institution across all programmes during the last five years.**

Response: 3365	
File Description	Document
Minutes of relevant Academic Council/BOS meeting	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).

Response: 100

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

Response: 20

File Description	Document
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.3 Curriculum Enrichment

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

Response:

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 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 behavior.

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 is 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	Document
Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.

**Response:** 53

#### 1.3.2.1 How many new value-added courses are added within the last five years.

**Response:** 53

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Brochure or any other document relating to value added courses	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.

**Response:** 35.12

#### 1.3.3.1 Number of students enrolled in value-added courses imparting transferable and life skills offered year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
275	1289	1295	1406	1014

### 1.3.4 Percentage of students undertaking field projects / research projects / internships (Data for the latest completed academic year).

**Response:** 48.09

#### 1.3.4.1 Number of students undertaking field projects or research projects or internships.

**Response:** 1324

File Description	Document
List of Programmes and number of students undertaking field projects research projects/ / internships (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.4 Feedback System

### 1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni

**Response:** A. All 4 of the above

File Description	Document
URL for stakeholder feedback report	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 1.4.2 Feedback processes of the institution may be classified as follows:

**Response:** A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
URL for feedback report	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Demand Ratio (Average of last five years)

**Response:** 4.11

##### 2.1.1.1 Number of seats available year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
810	981	738	728	1267

#### File Description

#### Document

Demand Ratio (Average of Last five years) based on Data Template upload the document

[View Document](#)

• Any additional information

[View Document](#)

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

**Response:** 53.58

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

2020-21	2019-20	2018-19	2017-18	2016-17
143	312	204	205	347

#### File Description

#### Document

Average percentage of seats filled against seats reserved (Data Template)

[View Document](#)

Any additional information

[View Document](#)

### 2.2 Catering to Student Diversity

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

**Response:**

'*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. **(Refer Dean List students in attachment).**
- 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	Document
Upload Any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

**Response:** 24:1

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

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

**Response:**

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

- Focus on outcome based education where learning outcomes are evaluated for continuous improvement.
- Based on course outcomes, faculty coordinators adopt various teaching pedagogies which involve student centric methods such as group discussions, case studies, experiential learning through educational tours, hands on training modules and 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. Component of project-based learning enhanced and credits for project work and student industry internship increased.

2. Industry internships are made mandatory where students get 'hands on' experience and work on live industry projects.
3. Introduction of **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 and IIC (Institute Innovation Council) club where young minds can play with the ideas and technology and helps in boosting the culture of innovation and incubation.

#### Initiatives for participative learning includes:

1. Use of various teaching pedagogies such as **activity-based learning**, group discussions, quizzes, seminars, workshops, role play, **MOOT Courts** and case studies for enhancing participative learning.
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 beyond the classroom development of students through co-curricular, extracurricular activities, team building exercises and participative learning methods.
4. School of Professional Attachment carries out various activities for boosting the participative learning and team activities 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 innovate and incubate ideas through industry participation and University mentorship.

#### 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. have been integrated 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 **beyond the classroom learning** offered through various **professional societies** which encourage and boost creativity, group activities and team work among students.
4. University has signed various **MoU's with Industry and Academia giants such as Daikin, MACE, MAGES**, etc. where students can attend workshops/guest lectures and can learn to solve problems from experts and industrial mentors.
5. Encouragement and support to participate in various **hackathons, technovation and industry-based competitions**.

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



### 2.3.2 Teachers use ICT enabled tools including online resources for effective teaching and learning process.

#### Response:

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 joyful. 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 graphics.
- 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 of examinations using AI based proctoring and online 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.
- World class smart classrooms with ceiling arrays microphones that enable camera tracking, smart ceiling speakers that can be programmed, PTZ Camera for speaker tracking, interactive digital podium, 85 inch 4K displays for students and 55 inch 4K displays for the instructor, for enabling an interactive teaching-learning environment.
- University offers a **recording facilities** where faculties can develop their e-content 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 were awarded **2nd prize in an international project competition held in China, July 2017.**

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide link for webpage describing the " LMS/ Academic management system"	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )

**Response:** 25:1

#### 2.3.3.1 Number of mentors

**Response:** 110

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

## 2.4 Teacher Profile and Quality

### 2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

**Response:** 71.67

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 2.4.2 Average percentage of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit. year-wise during the last five years

**Response:** 64.95

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

2020-21	2019-20	2018-19	2017-18	2016-17
80	77	84	78	75

File Description	Document
List of number of full time teachers with Ph D/D M/M Ch/D N B Superspeciality/DSc/D Lit and number of full time teachers for 5 years	<a href="#">View Document</a>

**2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)****Response:** 5.66**2.4.3.1 Total experience of full-time teachers**

Response: 651

File Description	Document
List of Teachers including their PAN, designation, dept and experience details	<a href="#">View Document</a>

**2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the last five years****Response:** 29.61**2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government/Govt. recognized bodies year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
10	7	6	6	7

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of award letters (scanned or soft copy)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

Response: 17.4

#### 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 last five years

2020-21	2019-20	2018-19	2017-18	2016-17
12	19	19	17	20

File Description	Document
List of Programmes and date of last semester and date of declaration of results	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years

Response: 0.01

#### 2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	0	0	0

File Description	Document
Number of complaints and total number of students appeared year wise	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### **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**

#### **Response:**

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	Document
Year wise number of applications, students and revaluation cases	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

**Response:** 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Document
Current manual of examination automation system and Annual reports of examination including the present status of automation	<a href="#">View Document</a>
Current Manual of examination automation system	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual reports of examination including the present status of automation	<a href="#">View Document</a>

**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**

**Response:**

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, seminars etc.

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

- In line with the vision and mission of the institute, the head of the institute along with deans of schools, 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 deliberations. The final approval of the revised outcomes is obtained in the Academic Council Committee (ACC) where heads of departments present the outcomes in the presence of various stakeholders.
- The ACC recommendations outcomes are finally presented and placed before the Board of Management for approval.

The process for defining the COs is:

- The senior faculty/subject expert prepares the Course Outcomes for the courses in line with the POs.
- The COs are presented in the departmental faculty meetings before 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
- LMS Dashboards
- 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 information is available on the university website in public domain. Some of the links for the schools and departments are as follows:

School of Management and Liberal Studies: <https://www.ncuindia.edu/school/school-of-management/>

School of Law: <https://www.ncuindia.edu/school/school-of-law/>

Department of Applied Sciences: <https://www.ncuindia.edu/school/school-of-applied-sciences/>

Department of Computer Science and Engineering (CSE): <https://www.ncuindia.edu/school/department-of-cse/>

Department of Electrical, Electronics and Communication Engineering: <https://www.ncuindia.edu/school/department-of-eece/>

Department of Mechanical Engineering: <https://www.ncuindia.edu/school/department-of-me/>

File Description	Document
Upload COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

### 2.6.2 Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution

#### Response:

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) is done by analyzing the performance of students in:

- Examinations
- Assignments
- Projects / Viva Voce / Dissertations
- Lab work evaluation and any other evaluation parameters for assessment of courses

Indirect measurement (through surveys, questionnaires, 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 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 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-education system.	
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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	Document
Upload any additional information	<a href="#">View Document</a>

### 2.6.3 Pass Percentage of students(Data for the latest completed academic year)

**Response:** 97.16

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 582

2.6.3.2 Total number of final year students who appeared for the examination conducted by the Institution.

Response: 599

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for the annual report	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1 Online student satisfaction survey regarding teaching learning process

**Response:**

File Description	Document
Upload database of all currently enrolled students	<a href="#">View Document</a>

## Criterion 3 - 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**

**Response:**

**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	Document
URL of Policy document on promotion of research uploaded on website	<a href="#">View Document</a>

### 3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

**Response:** 5.98

#### 3.1.2.1 The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).

2020-21	2019-20	2018-19	2017-18	2016-17
0.54	17.22	5.37	0.73	6.02

File Description	Document
Minutes of the relevant bodies of the University	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View Document</a>

### 3.1.3 Percentage of teachers receiving national / international fellowship / financial support by various agencies for advanced studies / research during the last five years.

Response: 2.96

#### 3.1.3.1 The number of teachers who received national / international fellowship / financial support by various agencies for advanced studies / research year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
1	7	2	3	5

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of the award letters of the teachers	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.1.4 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the last five years.

Response: 30

#### 3.1.4.1 The Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other research fellows enrolled in the institution year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
6	5	4	10	5

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 3.1.5 Institution has the following facilities to support research

1. Central Instrumentation Centre
2. Animal House/Green House
3. Museum
4. Media laboratory/Studios
5. Business Lab
6. Research/Statistical Databases
7. Mootcourt
8. Theatre
9. Art Gallery
10. Any other facility to support research

**Response:** A. 4 or more of the above

File Description	Document
Upload the list of facilities provided by the university and their year of establishment	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

### 3.1.6 Percentage of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies (Data for the latest completed academic year)

**Response:** 0

#### 3.1.6.1 The Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other similar recognitions by national and international agencies.

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 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 last five years (INR in Lakhs).

**Response:** 0.25

**3.2.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years (INR in Lakhs).**

2020-21	2019-20	2018-19	2017-18	2016-17
0	0.25	0	0	0

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of the grant award letters for research projects sponsored by non-government	<a href="#">View Document</a>

**3.2.2 Grants for research projects sponsored by the government agencies during the last five years (INR in Lakhs).**

**Response:** 147.3

**3.2.2.1 Total Grants for research projects sponsored by the government agencies year-wise during the last five years (INR in Lakhs).**

2020-21	2019-20	2018-19	2017-18	2016-17
0.75	11.07	39.08	27.36	69.04

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of the grant award letters for research projects sponsored by government	<a href="#">View Document</a>

**3.2.3 Number of research projects per teacher funded by government and non-government agencies during the last five years**

**Response:** 0.53

**3.2.3.1 Number of research projects funded by government and non-government agencies during the last five years.**

**Response:** 13

**3.2.3.2 Number of full time teachers worked in the institution year-wise during the last five years..**

Response: 122		
File Description	Document	
Supporting document from Funding Agency	<a href="#">View Document</a>	
Institutional data in prescribed format	<a href="#">View Document</a>	
Paste Link for the funding agency website	<a href="#">View Document</a>	

### 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.

##### Response:

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 the Master Jagannath Centre of Excellence & Incubation (MJCEI) on 26 April 2017 (renamed as The NorthCap Techno-Business Incubation centre in Nov 2021) to help students and faculty incubate innovative ideas by facilitating skills like Creative Thinking, Problem Solving and Data Generation. A seed amount of Rs 5 lakhs has been provided by initially by an alumni of NCU.

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:

i) Coopern4u (Fintech)

[www.coopern4u.com](http://www.coopern4u.com)

ii) Curesee (Healthtech)

[www.curesee.com](http://www.curesee.com)

iii) 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.

**Some of the recent activities/events conducted by The NorthCap Incubation Centre are:**

1. Visit by Prof. BK Kuthiala, Chairperson, Haryana State Higher Education Council, Govt of Haryana during Orientation Programme (date: 21-07-2018).
2. Display of Incubation Centre Projects to Governing Body members, Vice Chancellor, Directors, Deans and HoDs (date: 13-09-2018).
3. Visit by Shri A.S. Kiran Kumar, Padma Shri, Former Chairman, ISRO during VIIIth Scholarship Distribution Ceremony (date: 22-01-2019).
4. Awareness session on Innovation & Entrepreneurship (date: 28-03-2019).
5. "Motivational Talk on Entrepreneurship" by eminent speakers from UIncept (date: 23-07-2019).
6. MOU signing with UIncept - a startup incubator and accelerator (date: 09-09-2019).
7. Initiated a Startup Program (date: 22-10-2019).
8. Recognition of Incubation Centre MHRD's Innovation Cell, Govt. of India for establishing Institution Innovation Council (IIC) for year 2019-20.
9. Smart India Hackathon 2020 was conducted in two categories Software and Hardware January 27-29, 2020. 8 Software teams and 6 Hardware teams represented NCU in SIH 2020. One team with project title "Swacchta Prabandh" won in SIH 2020.

File Description	Document
Paste link for additional information	<a href="#">View Document</a>



**3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.****Response:** 372**3.3.2.1 Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
100	100	62	63	47

File Description	Document
Report of the event	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**3.3.3 Number of awards / recognitions received for research/innovations by the institution / teachers / research scholars / students during the last five years.****Response:** 115**3.3.3.1 Total number of awards / recognitions received for *research* / innovations won by institution / teachers / research scholars / students year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
36	30	22	16	11

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

**3.4 Research Publications and Awards**

**3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following: 1. Inclusion of research ethics in the research methodology course work 2. Presence of Ethics committee 3. Plagiarism check through software 4. Research Advisory Committee**

**Response:** A. All of the above

File Description	Document
Code of ethics for Research document, Research Advisory committee and ethics committee constitution and list of members on these committees, software used for Plagiarism check, link to Website	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.4.2 The institution provides incentives to teachers who receive state, national and international recognitions/awards** 1. Commendation and monetary incentive at a University function  
2. Commendation and medal at a University function 3. Certificate of honor 4. Announcement in the Newsletter / website

**Response:** B.. 3 of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e- copies of the letters of awards	<a href="#">View Document</a>

**3.4.3 Number of Patents published / awarded during the last five years.**

**Response:** 28

**3.4.3.1 Total number of Patents published / awarded year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
4	17	4	2	1

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

**3.4.4 Number of Ph.D's awarded per teacher during the last five years.**

**Response:** 1.25

**3.4.4.1 How many Ph.D's are awarded within last five years.**

**Response:** 66

**3.4.4.2 Number of teachers recognized as guides during the last five years**

Response: 53

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
URL to the research page on HEI web site	<a href="#">View Document</a>

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

Response: 6.74

**3.4.5.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
135	123	146	164	252

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

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

Response: 2.46

**3.4.6.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
52	34	69	83	61

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

**3.4.7 E-content is developed by teachers :**

1. For e-PG-Pathshala
2. For CEC (Under Graduate)
3. For SWAYAM
4. For other MOOCs platform
5. Any other Government Initiatives
6. For Institutional LMS

**Response:** D. Any 2 of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

#### 3.4.8 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed

**Response:**

File Description	Document
Bibliometrics of the publications during the last five years	<a href="#">View Document</a>

#### 3.4.9 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

**Response:**

File Description	Document
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 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.**

**Response:**

**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:

<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	Document
Upload soft copy of the Consultancy Policy	<a href="#">View Document</a>
Paste URL of the consultancy policy document	<a href="#">View Document</a>

### 3.5.2 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).

**Response:** 83.3

#### 3.5.2.1 Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).

2020-21	2019-20	2018-19	2017-18	2016-17
11.27	15.80	11.13	2.77	42.33

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

## 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 last five years.

**Response:**

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.
- NCU participates in the Swachhata Rankings of Higher Education Institutions and featured amongst the Top 5 UGC approved Universities in the country in the Non-Residential category in December 2019.
- 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	Document
Upload any additional information	<a href="#">View Document</a>

### 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 last five years

**Response:** 34

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

2020-21	2019-20	2018-19	2017-18	2016-17
9	10	6	5	4

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>

### 3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

**Response:** 117

#### 3.6.3.1 Number of extension and outreach programs conducted by the institution those through NSS/NCC, Government and Government recognised bodies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
31	30	18	11	27

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

### 3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years

**Response:** 79.15

#### 3.6.4.1 Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
3453	2083	1965	1363	2906

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

## 3.7 Collaboration



**3.7.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year****Response:** 25.6**3.7.1.1 Total number of Collaborative activities with other institutions / research establishment / industry for research and academic development of faculty and students year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
16	41	32	21	18

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Copies of collaboration	<a href="#">View Document</a>

**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 last five years.****Response:** 74**3.7.2.1 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 year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
15	17	12	14	16

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of the MoUs with institution/ industry	<a href="#">View Document</a>

## Criterion 4 - 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.**

**Response:**

**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:**

- 69 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 of 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 3:1 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	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

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

##### Response:

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	Document
Geotagged pictures	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.3 Availability of general campus facilities and overall ambience

##### Response:

- 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 **69 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.

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

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

**Response:** 8.03

##### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
561.91	321.17	162.92	214.11	153.06

<b>File Description</b>	<b>Document</b>
Upload audited utilization statements	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

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

**Response:**

- 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	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.2.2 Institution has access to the following: 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources

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

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

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

**Response:** 101.49

4.2.3.1 Annual expenditure for the purchase of books and journals including e-journals year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
171.99	70.83	89.90	80.63	94.09

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

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

**Response:** 8.75

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

**Response:** 251

File Description	Document
Details of library usage by teachers and students (Library accession register, online accession details to be provided as supporting documents)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 4.3 IT Infrastructure

#### 4.3.1 Percentage of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities. (Data for the latest completed academic year)

**Response:** 100

##### 4.3.1.1 Number of classrooms and seminar halls with ICT facilities

**Response:** 89

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

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

**Response:**

**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.**

**The allocated budget and amount utilized during the last five academic years for network upgradation, bandwidth, hardware, and software are as follows (in Lakhs):**

Year	Nature	Network Upgradation	Bandwidth	Hardware	Software	Total
2016 – 2017	Budget	10	12	60	15	97
	Actual Spent	7.36	11.21	54.81	12.78	86.16
2017 – 2018	Budget	50	12	25	30	117
	Actual Spent	47.46	11.21	22.15.	30	88.67
2018 – 2019	Budget	10	13.4	35	20	78.4
	Actual Spent	9.3	13.4	31	19.3	73
2019 – 2020	Budget	3	13.4	51	2.81	70.21
	Actual Spent	2.9	13.4	71	2.8	90.1

For the Year 2019-2020 University has so far spent 28 lakhs on wi-fi and network upgradation.

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.

<https://www.ncuindia.edu/wp-content/uploads/2018/11/IT-Policies.pdf>

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

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

**Response:** 3:1

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student – computer ratio	<a href="#">View Document</a>

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

**Response:** C. 250 MBPS - 500 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

#### 4.3.5 Institution has the following Facilities for e-content development

1. Media centre
2. Audio visual centre
3. Lecture Capturing System(LCS)

**4.Mixing equipments and softwares for editing****Response:** A. All of the above

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

**4.4 Maintenance of Campus Infrastructure**

**4.4.1 Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years**

**Response:** 87.58

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

2020-21	2019-20	2018-19	2017-18	2016-17
3015.08	3054.89	2880.49	3387.12	3160

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

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

**Response:**

**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.

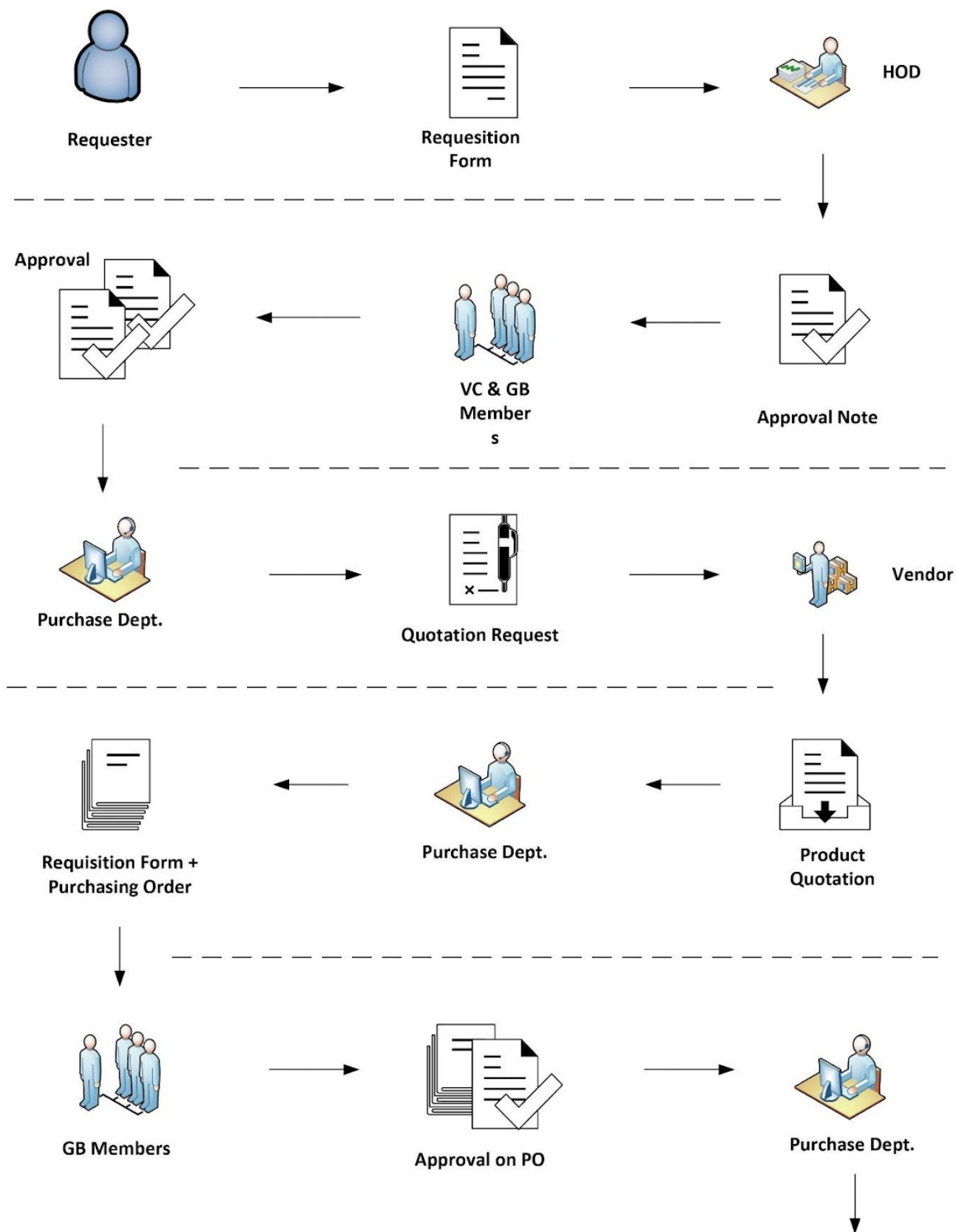
The committee follows the following process while doing any activity, event, meet with the alumni. The components are - Connect, Engage and Impact. The entire documentation will be undertaken with this principle.

(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	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

NAAC

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

**5.1.1 Average percentage of students benefited by scholarships and freeships provided by the institution, Government and non-government agencies (NGOs) during the last five years (other than the students receiving scholarships under the government schemes for reserved categories).**

**Response:** 8.71

**5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

2020-21	2019-20	2018-19	2017-18	2016-17
293	246	228	247	287

File Description	Document
Upload self attested letter with the list of students sanctioned scholarship	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**5.1.2 Average percentage of students benefited by career counseling and guidance for competitive examinations offered by the Institution during the last five years.**

**Response:** 74.83

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

2020-21	2019-20	2018-19	2017-18	2016-17
1122	2473	2212	2713	2824

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

**5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology**

**Response:** A. All of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**5.1.4 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases 1. Implementation of guidelines of statutory/regulatory bodies 2. Organisation wide awareness and undertakings on policies with zero tolerance 3. Mechanisms for submission of online/offline students' grievances 4. Timely redressal of the grievances through appropriate committees**

**Response:** A. All of the above

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

## 5.2 Student Progression

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

**Response:** 72.32

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

2020-21	2019-20	2018-19	2017-18	2016-17
16	56	42	29	29

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

2020-21	2019-20	2018-19	2017-18	2016-17
18	74	60	50	42

File Description	Document
Upload supporting data for the same	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

**5.2.2 Average percentage of placement of outgoing students during the last five years**

**Response:** 56.05

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

2020-21	2019-20	2018-19	2017-18	2016-17
349	503	423	563	390

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

**5.2.3 Percentage of student progression to higher education (previous graduating batch).**

**Response:** 26.46

**5.2.3.1 Number of outgoing student progressing to higher education.**

Response: 154

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

### 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 last five years.**

Response: 30

**5.3.1.1 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) year - wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
02	08	05	14	01

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

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

Response:

**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	Document
Upload any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 5.3.3 Average number of sports and cultural events / competitions organised by the institution per year

**Response:** 20.8

#### 5.3.3.1 Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
04	20	33	24	23

File Description	Document
Report of the event	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## 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.

**Response:**

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	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

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

**Response:** D. 5 Lakhs - 20 Lakhs

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for any additional information	<a href="#">View Document</a>

NAAC

## Criterion 6 - 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.**

**Response:**

The NorthCap University has a well-defined Vision, Mission and Core values which are stated on the website and are given below:

**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.

#### Vice Chancellors:

**Prof. Nupur Prakash** - Vice Chancellor from 2021 till date. She was founder VC of IGDTUW (estd. By Govt. of Delhi) from 2013 to 2018. She served as Vice Chancellor of Indira Gandhi Delhi Technical University for Women for 5 years. She has been honoured with “Outstanding Contribution to Higher Education” Award in 2017 and “Life time Achievement Award for promoting girl centric education” in 2018. She is BE (ECE), IIT Roorkee, ME (CSE), IIT Roorkee and PhD(AI) from Panjab University.

**Prof. H.B Raghvendra** – Vice Chancellor from 2017 to 2021. Served as Vice Chancellor, Pandit Deendayal Petroleum University, Gandhi Nagar, Gujarat prior to joining NCU. He has been instrumental in setting up the Centre of Excellence in Automobile, Biofuel Studies and Wind Energy.

**Prof. Prem Vrat** - Vice Chancellor from 2011- 2014, Pro-Chancellor from 2014 - till date. Prior to joining NCU, Prof. Vrat was Vice-Chancellor, U.P. Technical University, Lucknow. He received Dr. M.C Puri Memorial Award of ORSI for his outstanding contribution for promotion of Operational Research in India and Life Time Achievement Award-2017.

**Prof. R.K. Singh** - Vice Chancellor from 2010-2011. Ph.D.degree by the Banaras Hindu University in 1969 for his research on New Three-Body Force Shell Model for Ionic Solids.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

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

##### Response:

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. In the Standing Committee of the Academic Council meeting which was held on 22 April 2020, and in the subsequent Dean and HoDs meeting with the Vice Chancellor held in the Month of May 2020, conduct of examination including online examination for final year was approved along with revised Academic Calendar for the balance Academic Year 2019-20.

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	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic plan is effectively deployed.

#### Response:

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 required.

File Description	Document
Any additional information	<a href="#">View Document</a>
Strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

#### **Response:**

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	Document
Any additional information	<a href="#">View Document</a>
Link to Organogram of the University webpage	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 6.2.3 Institution Implements e-governance covering following areas of operation

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

**Response:** A. All of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	<a href="#">View Document</a>

## 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 .

#### Response:

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	Document
Link for Additional Information	<a href="#">View Document</a>

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

**Response:** 11.47

#### 6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and

**towards membership fee of professional bodies year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
21	4	38	6	1

File Description	Document
Details of teachers provided with financial support to attend conferences, workshops etc. during the last five years (Data Template)	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.****Response:** 12.8**6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
14	16	12	6	16

File Description	Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).****Response:** 67.63**6.3.4.1 Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
96	77	68	71	98

File Description	Document
Details of teachers attending professional development Programmes during the last five years (Data Template)	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

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

#### Response:

#### 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	Document
Link for Additional Information	<a href="#">View Document</a>

#### **6.4.2 Funds / Grants received from government bodies during the last five years for development and maintenance of infrastructure (not covered under Criteria III and V ) (INR in Lakhs).**

**Response:** 16.22

##### **6.4.2.1 Total Funds / Grants received from government bodies for development and maintenance of infrastructure (not covered under Criteria III and V) year wise during the last five years (INR in Lakhs).**

2020-21	2019-20	2018-19	2017-18	2016-17
0.2645	2.0024	4.38	2.58	6.9972

File Description	Document
Details of Funds / Grants received from government bodies during the last five years (Data Template)	<a href="#">View Document</a>
Annual statements of accounts	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 6.4.3 Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)

**Response:** 120.37

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	5.9	51.153	63.32

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 6.4.4 Institution conducts internal and external financial audits regularly

**Response:**

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	Document
Any additional information	<a href="#">View Document</a>

## 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.**

### Response:

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	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**6.5.2 Institution has adopted the following for Quality assurance 1. Academic Administrative Audit (AAA) and follow up action taken 2.Conferences, Seminars, Workshops on quality conducted 3. Collaborative quality initiatives with other institution(s) 4.Orientation programme on quality issues for teachers and students 5. Participation in NIRF 6.Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA).**

**Response:** A. Any 5 or more of the above

File Description	Document
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>
Paste web link of Annual reports of University	<a href="#">View Document</a>

**6.5.3 Incremental improvements made for the preceding five years with regard to quality (in case of first cycle), Post accreditation quality initiatives (second and subsequent cycles).**

**Response:**

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.

- Setting up of Institution Innovation Council (IIC) in 2019.
- Turnitin Software for Plagiarism check.

#### 4. Physical Infrastructure

- Establishment of Centre for Emerging Technologies to promote research and development in areas of AI, Cybersecurity, IoT, AR/VR, Robotics etc. and 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	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

##### Response:

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 Vice Chancellor**, 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. **Panel discussions on Gender Equality and Women Empowerment** are planned in collaboration with Brahma Kumaris and Gurugram Police to address serious concerns which may cause threat to women safety and security. Awareness campaigns like 'Sashakt Neev' are organized on contemporary topics like women safety, gender equality, saving the girl child, right to education, equal employment opportunities etc. During such events, students/faculty reiterate and raise their voice for equal rights, equal opportunities and equal participation in all walks of life which is presented through spirited theme dance, nukkad nataks etc.
4. To address health and lifestyle concerns especially for women, **free medical camps and health check-ups** have been organized by our Medical Officers in collaboration with Columbia Asia. At various points, Gynecologists, Dieticians, Clinical Psychologists, Counsellors have been invited as speakers to address the prevailing issues surrounding women in the workplace.
6. **Day Care Facility** has been provided to NCU employees allowing working parents to have a safe environment for their children.
7. **Grievance Redressal mechanism** is in place to address and provide resolution of any complaints of employees and /or students at the workplace.

8. 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.

9. **NCU has separate girls and boys hostels.** All hostels and academic areas including the gates have CCTV installed at strategic points to check any untoward incidents. Round the clock security officers are posted on vigil duty, for the entire campus. Members of the Anti-Ragging committee keep a vigil and stop the incidences of Ragging.

10. **Common Rooms for girls and boys** with television, books and other generic lounge furniture for socializing are available in University Campus.

File Description	Document
Specific facilities provided for women in terms of: a.Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>
Annual gender sensitization action plan	<a href="#">View Document</a>

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

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

**Response:** A. 4 or All of the above

File Description	Document
Geotagged Photographs	<a href="#">View Document</a>

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

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

**Response:**

NCU is committed to the green movement. Campus-wide initiatives at reducing, reusing and recycling are helping it achieve a green code of living.

### **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	Document
Geotagged photographs of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

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

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

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

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

#### 7.1.5 Green campus initiatives include:

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

**Response:** Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	<a href="#">View Document</a>
Geotagged photos / videos of the facilities	<a href="#">View Document</a>

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

1. Green audit
2. Energy audit
3. Environment audit



**4.Clean and green campus recognitions / awards****5.Beyond the campus environmental promotion activities**

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

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>
Certificates of the awards received	<a href="#">View Document</a>

**7.1.7 The Institution has disabled-friendly, barrier free environment**

- 1.Built environment with ramps/lifts for easy access to classrooms.**
- 2.Divyangjan friendly washrooms**
- 3.Signage including tactile path, lights, display boards and signposts**
- 4.Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

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

File Description	Document
Policy documents and information brochures on the support to be provided	<a href="#">View Document</a>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Details of the Software procured for providing the assistance	<a href="#">View Document</a>

**7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).**

**Response:**

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. This Chapter has

been involved in conducting Blood Donation Camps in collaboration with **Rotary Club**, Village Adoption Projects, focusing on education of children and conducting awareness sessions regarding overall development among poor sections of villages. The Society recently organised a Residential Camp, an annual three days event in the adopted village Abheypur, Sohna, Gurugram. The members of the Society also work on **Skilled Literacy Program (Start-Up India Campaign)**, **Swachh Bharat Abhiyan**, **Social Rehabilitation of Inmates in Jail (Bhondsi Jail Project)** and many other government initiatives.

**Rotaract NCU Club** boasts of over 100 Rotaractors from all three schools of the University. The club focuses on the respect for the rights of others, enhancing knowledge and personal development, addressing the physical and social needs of the communities and promoting 'VASUDHEV KUTUMBKAM' through a framework of friendship and service. The club organises regular blood donation camps, visits to old age homes in Gurugram, awareness campaigns on social and health issues, celebrating festivals with marginal sections such as construction workers, homeless and destitute. The Club annually plans 12 events serving its motto.

**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. It is a movement with chapters in over 300 towns and cities all over the world and NCU is proud to be one of its nodal centre. Since its inception SPIC MACAY Chapter of the University has hosted various performances such as by renowned Indian Classical Musicians, Shri. S. Shankar, Ms. Ragini Chandrasekhar, Shri Rajat Prasanna. The volunteers also participate in the international conventions organized by SPIC MACAY annually.

**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. It includes competitions in fields of dance, music, fashion, personality and culminating in a cultural night that promotes regional diversity. Teams from various colleges and universities compete with zeal and enthusiasm during this fest.

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

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

**Response:**

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. The day is celebrated a week in advance with a blend of quizzes, poster making, guest lectures by eminent academicians and judges as well as showcasing of documentaries on Constitutional values and ethos for the students and employees. On 26th November 2020, NCU invited Justice Vimlesh Kumar Shukla, Sr. Judge, Allahabad High Court as the Chief Guest. Preamble reading by the staff and students on the Constitution Day was also an integral part of the weeklong celebration.
- NCU is motivated by the aim to equip students with a sound value system that allows them to comprehend the importance of harmony between self and the society at large. To this effect, The University organizes **National Voting Day**, fostering the spirit of democracy and emboldening the right to vote. Additionally, **Republic and Independence Day** celebrations are marked by academic and cultural events to underline the importance of the Constitution and the role of an individual as a citizen.
- 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. **Rotaract, NSS, Yukti, IEEE-Humanitarian Wing** and the **Abhimanch Theatre Society** of NCU organize various events throughout the year with a special focus on individual liberties and women's rights.
- 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. Recently our students visited Bhondsi Jail where they interacted with the prisoners and initiated discourse on prisoners' rights.
- 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.
- All of this is integrally tethered to **Fundamental Duties** ranging from rendering national service, maintaining respect and dignity for women, education for children, developing scientific temper, and so forth.
- 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.**

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

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<a href="#">View Document</a>
Code of ethics policy document	<a href="#">View Document</a>

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

**Response:**

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 NCU celebrates **Independence Day and The Republic Day** at its own campus inviting students, staff and their family members. 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**'.

The days commemorating **Voters Day, Hindi Diwas, Engineers Day, Women Day, Diwali** are celebrated on campus in accordance to our traditions and pomp duly incorporating activities of our clubs and societies. These festivals provide an informal and relaxed environment to interact with faculty, other staff, Alumni and their families. The bonhomie created during festivities provides spice of performing beyond boundaries and expectations.

**World Environment Day** "The green we sow, the more we grow", with the will and dedication, the NCU celebrates the World Environment regular basis.

**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. 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.

The School of Law, NorthCap University celebrated the ‘**Samvidhan Divas**’ on 26th November 2021 to commemorate 72 years of the adoption of the Constitution of India. The event witnessed the presence of Professor (Dr.) Nupur Prakash, Vice Chancellor of the NCU; Professor (Dr.) Prem Vrat, Pro-chancellor; Col. Vikram Mohanty, Registrar; Professor (Dr.) Manjula Batra, Professor, School of Law and Dr. Archana Sarma, Head, School of Law along with all faculty members across different departments and students. The audience rose to the occasion and a pledge of the preamble was taken. The pledge was led by Ms. Arushi Anthwal, Assistant Professor, School of Law.

File Description	Document
Geotagged photographs of some of the events	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>

## 7.2 Best Practices

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

**Response:**

**Best Practice 1**

**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: (400 words)

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:

1. 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, Ansyst Consulting. This has enhanced employability also as internships led to Pre-placement offers.

2. 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. This enhanced the performance of the students as seen by comparing the results of 2018 and 2019 batch. The class average in the same course increased from 65% to 69%.

3. Employability has also enhanced as the number of companies visiting for campus recruitment has increased in the last 4 years.

## 4. 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. Notes: (Optional)**

NIL

## **Best Practice 2:**

### **1. Title of the Practice:**

**Social responsibility through Environment Friendly Practices and Community engagement**

### **2. Objectives of the Practice: (100 words)**

- To bring the institutions and society together to make life better for the neglected, the adversely affected and the underprivileged regardless of caste, colour, religion or status.
- To inculcate human values like selflessness, liberal outlook, and integrity of character.
- To contribute to sustainable development by delivering economic, social and environmental benefits for all stakeholders.
- To cultivate in the students the spirit of active involvement in the service to the community.
- To create closer ties between institutions and communities to deepen the quality of learning and discovery and develop empathetic committed and caring individuals at NCU.

### **3. The Context: (150 words)**

The NorthCap University was essentially a teaching institute, from 1996 to 2008. Once it started functioning as a "State Private University", it recognised the need for giving back to the community. To meet this goal NCU initiated several clubs and professional societies to undertake several social responsibilities and conduct various donation drives, environment friendly drives, awareness seminars and street plays, blood donation camps, literacy programs, legal aid camps, energy and socially relevant projects etc. throughout the year. The clubs and professional societies encourage and propel students to participate actively in several outreach activities. Some weightage to these activities are given in one credit course of General Proficiency in each semester (GP).

Community Service has been incorporated in the curriculum through volunteer hours by all NCU students after acquiring the status of the University. Community service enables students to acquire life skills, high self-esteem, knowledge and satisfaction and provides amenities to those who need it most.

### **4. The Practice: (400 words)**

In order to monitor the activities of clubs and society a SAL and Professional Society Subcommittees composed of faculty, students has been constituted. Schemes have been revised to incorporate the community service component in the curriculum

List of Clubs and Societies at NCU engaging students in community service-related activities is as follows:

- Yukti
- NSS NCU (Govt. of India Scheme)
- Rotaract Club of NCU (NCU Wing of Rotaract International)
- Legal Aid Society
- IEEE Humanitarian Wing (NCU Chapter)
- Enactus NCU (NCU chapter of Enactus International)
- Manovriti Club
- The Awakening Club
- Sehyog Club
- NEEV (Student chapter)
- Udaan
- Chetna
- Engineering without Borders
- Prayaas

The capability document highlighting some of the contributions of each club in environment friendly practices and community service shall be uploaded in the link.

The principals involved in sensitizing students towards social responsibilities at NCU are:

? **Value in the act:** The act itself brings about a feeling of having given back to the society you belong to in terms of suggesting better ways to manage waste, surveys generating awareness regarding water conservation etc. The courses like, major and minor project work, summer internship, activities and events provide a meaningful experience within the context of the student's aim for social responsibility.

? **Relevancy:** Students understand the social and environmental challenges as relevant to their own lives and feel motivated to work towards it. Assessment is formative - it is used to support the learning process and guide changes to teaching strategies.

? Environment Friendly Practices – Various Green Practices are followed on campus such as

- Solar Power Plant
- Waste water recycling
- Sewage treatment plant
- Rain Water harvesting
- Composting
- Garbage Segregation
- e-Waste management

? **Connecting Experience to Future Opportunity:** Working for society responsibly helps students augment their personal knowledge, grow from new experiences, and develop better interpersonal and communication skills. This also gets reflected in the socially relevant projects that they develop as part of these activities of various clubs and societies.

? **Building profile:** Students are engaged emotionally, mentally and physically in socially responsible work which helps them to feature this experience in their resume and boost chances of finding a good job or admission to prestigious National/International institutions for higher studies.

#### 5. Evidence of Success: (200 words)

The University maintains lush Green surroundings and wins awards for horticulture year after year. To name a few Swacchta Ranking Award, Green Champion Award (One district one champion by Mahatma Gandhi National Council for Rural Education, Dept. of Higher Education under Ministry of Education).

The process of involving students in social responsibility and environment friendly practices offers students the prospect to become active members of their community and has a long-term, encouraging impact on society at large. They develop a deeper learning and improved academic outcomes thereby enhancing their work-life balance.

It can be well defined by following engagement activities:

**Community Service:** Students have worked on projects where awareness has been generated to segregate and manage waste, to access reusing potential of various industrial waste materials, to access water quality suitability for drinking, agricultural purposes, energy efficient heating/cooling mechanism, sustainable materials for building construction. The findings and result of the project work shows promising solutions towards various challenges faced by society at large. Students have won various competitions like Smart India Hackathon for project on “Swacch Prabandh”. Few more socially relevant projects developed by students are:

**Activities under clubs/societies:** Some of the events that students participate under the banner of different societies and clubs are

- Environment day
- Water conservation drive
- Blood donation
- Village adoption
- Forest conservation awareness
- Covid19-Living in the Pandemic
- Donation drives to old age homes, orphanages
- Vriksha Ganga campaign
- Cleanliness Drives
- Mask donation drive
- Save the child campaign
- Free education in slum areas

This helps them to connect to society and generate awareness on various natural resources and sensitizing people to use it judiciously.

#### **6. Problems Encountered and Resources Required: (150 words)**

The first problem one could face in working for societal responsibility is rural urban divide, as nowadays students from metro cities are unaware of problems encountered by villagers in rural parts of India. Lack of network coverage and poor connectivity were certain challenges encountered by the students during community service. The resources and support required for community service such as transportation, Club Incharges, Refreshments etc. were provided by the University.

In certain visits like jails taking permissions are tough. However, firm commitment and support by the university helped overcome the problem and students could visit Bhondsi Prison.

#### **7. Note:**

NIL

File Description	Document
Best practices in the Institutional web site	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

## 7.3 Institutional Distinctiveness

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

#### Response:

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 in the year 2019-20. 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 2019 and 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
- Risk-taking
- Teamwork
- Expanding ways to employment

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. Visit by Prof. BK Kuthiala, Chairperson, Haryana State Higher Education Council, Govt of Haryana during Orientation Programme 2018 on 21-07-2018.
2. Display of Incubation Centre Projects to Honorable Governing Body (GB) members, Vice Chancellor, Directors, Deans and HoDs on 13-09-2018.
3. Visit by Shri A.S. Kiran Kumar, Padma Shri, Former Chairman, ISRO during VIII Scholarship Distribution Ceremony on 22-01-2019.
4. An awareness session was organized on Innovation & Entrepreneurship to help the students and faculty understand the progressive path of entrepreneurship and utilize the facilities provided by the University in the form of VC Innovation Fund and Incubation Centre on 28-03-2019.

5. A “Motivational Talk on Entrepreneurship” by eminent speakers from UIncept was organized on 23-07-2019 for the first-year students. The session was conducted by Mr. Shashi Gupta, Head of Operations and Mr. Karan Singh Chauhan from Marketing & Business Development.
6. A MOU was signed with UIncept - a startup incubator and accelerator on 09-09-2019 to help students incubate new innovative ideas. UIncept envisions to support entrepreneurs in building great enterprises through mentorship, infrastructure and a network of potential investors and aiding government institutions.
7. Initiated a Startup Program on 22-10-2019 wherein students and alumni were made to learn how to build up real products and solve business challenges in a viable way. Sh. Avtar Singh, CEO and Co-Founder of Intelliout.com addressed the students of NCU about the importance and the need for building a Startup Ecosystem.
8. 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
- Coopearn

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

- i) 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.
- j) Toyachthon Challenge - 8 Faculty, 52 students took part in the drive, 13 Teams successfully submitted their Ideas and 1 team got shortlisted among 18000 teams.
- k) 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.
- l) IInd Startup Idea Challenge Oct. 2021 - Around 30 startup ideas are shortlisted. 10 startups ideas to be pre-incubated by March 2022.

m) 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.

n) Introduction Program for Newly Admitted students - An introductory session with workshop held on 28-09-21 (POWER OF AN IDEA) & 24-10-21 (KNOW THE POWER OF AN IDEA IN YOUR JOURNEY AT NCU).

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 ? 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.

File Description	Document
Appropriate web in the Institutional website	<a href="#">View Document</a>



## 5. CONCLUSION

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### Additional Information :

The campus sustainability team leads efforts at The NorthCap University to transform our campus into thriving sustainable environment that enhance education, research and operations. The campus sustainability team brings together staff who specialise in environmental planning, engineering, reporting, compliance and behaviour changes. We focus on improving the built environment in combination with extensive behavior change programs, to inspire the community to study and work in a more sustainable manner.

NCU has entered into academic collaboration with ASU, a leading US University to bring international exposure to our students. The collaboration allows NCU to enrich its curriculums with ASU content, adopt some of the best teaching pedagogies, access to international faculty for co teaching, joint research projects, student and faculty exchanges, accelerated Master's programs at Arizona for NCU students and many more benefits. Further, the tripartite collaboration with ASU and Cintana Education LLC has enabled NCU to embrace the vision of India's New Education Policy (NEP) 2020. This partnership of ours is different from what Cintana and ASU have with other Universities in the world in the nature of its scope, network effects and commitment of enabling partners. To ensure growth with quality the partnership is based on four pillars of digital first, innovation, internationalization and organizational readiness. To enhance our brand various marketing efforts as well as implementation action on the academic front are being taken simultaneously. Following are the quality initiatives taken by NCU in collaboration with ASU: 1. Certificate Programs powered by ASU: Two certificate programs – i. Business Analytics ii. Project Management have been launched. 2. ASU Online Content for integration as part of NCU curriculum 3 Global Signature Courses with lectures from international faculty for all NCU students. These courses shall be taught by NCU faculty with support from ASU/ other International faculty through selected lectures, workshops etc. Two such courses have been taught as Global Signature Courses- i. Entrepreneurship ii. Principles of Economics

### Concluding Remarks :

The NorthCap university celebrates the silver jubilee of its foundation in 2021, and has developed into a multidisciplinary teaching cum research university in line with National Education Policy 2020 recommendations. The university has strong **industry linkages** and offers UG, PG and PhD programs in Engineering, Science, Management, Law and Liberal studies. The new age technologies and courses in **IoT, AI, Data Science, Cyber Security, Robotics and Automation, Digital Marketing, cloud computing** are nurtured with great passion. The state-of-the-art labs have been established in each school with centres of excellence thriving in cutting edge technology areas.

The **School of Professional Attachment** establishes connect with the industries for **student internships**, placements, counsels students for higher studies and competitive exams. The office of the Dean, Research Development and Industry Liaison (RDIL) enables sponsored research projects from DST, SERB, WOSA along with consultancy from industry.

The overall growth of the institution is due to the committed decentralized governance with nominees from the State Government steering the growth. The members of the Academic Council, Board of Studies and Academic Advisory Board comprise of eminent academicians and industry experts for curricula development and revision.

The office of the Dean International Affairs executes MoU's with International Universities for collaborative research, jointly organising conferences and enabling higher studies of students in foreign universities.

The Entrepreneurship development activities in the **Incubation Centre** of the University has got the NorthCap University ranked in ARIIA "Band A". The university has ranked 97th in Engineering category NIRF2021. The university has recently received a 4 star rating for the Institution Innovation Council (IIC) approved by the Ministry of Education, GoI. The Vice Chancellor's Innovation Fund provides seed money to the winners of start-up challenges organised by the university to promote start-up culture.

The University has a functional student-support mechanism through the office of Dean Students Welfare, along with Grievance Redressal Cell, Proctorial Board, Anti Ragging Committee, Internal Complaints Committee, for their academic pursuit in a harmonious environment. During the difficult COVID pandemic times, the university instantly resorted to digital mode of teaching and evaluation to maintain unhindered academic continuity.