



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	THE NORTHCAP UNIVERSITY
Name of the head of the Institution	Prof. H B Raghavendra
Designation	Vice Chancellor
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	01242365811
Mobile no.	9870548208
Registered Email	naac@ncuindia.edu
Alternate Email	vcoffice@ncuindia.edu
Address	HUDA, Sector 23A Gurugram-122017
City/Town	Gurugram
State/UT	Haryana
Pincode	122017
2. Institutional Status	
University	Private
Type of Institution	Co-education

Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. Pramod Bhatia
Phone no/Alternate Phone no.	01242364811
Mobile no.	9953888032
Registered Email	naac@ncuindia.edu
Alternate Email	pramodbhatia@ncuindia.edu

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.ncuindia.edu/wp-content/uploads/2020/12/ECSC-15-AA-85-1-dated-25-05-2016-The-NorthCap-University-Gurugram-Haryana.doc..pdf
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4. Whether Academic Calendar prepared during the year

if yes, whether it is uploaded in the institutional website: Weblink :	Yes https://www.ncuindia.edu/wp-content/uploads/2021/01/Academic-Calendar-Year-2018-19-Odd-Semester.pdf
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5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.72	2016	25-May-2016	24-May-2021

6. Date of Establishment of IQAC

08-Aug-2011

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Efforts to uplift slow learners	12-Oct-2018 252	300

Development of E-portfolio of students	12-Oct-2018 250	5
Creation of Makers Space	12-Oct-2018 260	8
Developing Parental information system	12-Oct-2018 260	5
Liberal studies would be an integral part of the curriculum	12-Oct-2018 255	15
Introduction of Innovative courses and upskilling of faculty members	12-Oct-2018 30	37
More MoUs with industry	12-Oct-2018 250	8
Inclusion of project based learning in the curriculum	12-Oct-2018 260	25

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. Kavita Khanna Co-PI: Dr. Rita Chhikara (CSE) and Dr. Rakesh Kumar Dua (Max Hospital shalimarbagh)	DST	DST- CSRI	2018 1095	19.59
Dr. Phool Singh (APS) and Co-PI: Ms Jyotsna Singh (CSE)	DST	DST- CSRI	2015 1095	31.88
Dr. Aditya Sharma (APS)	DST	DST (SERB) Young Scientist	2016 1095	42

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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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10. Number of IQAC meetings held during the year :

1

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
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12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. Incorporating project based learning in curriculum: Every department either has such courses or has incorporated them. 2. Upskilling of faculty members: Three trainings were conducted and, 28 faculty, 5 research scholars and 4 technical staff were trained. 3. Steps to improve research, research scholars, quality of publication. Following was implemented in this regard: • Faculty commitments at the starting of Academic year • Regular DRC meetings • More members in SRC • Promotion through social media and personal contacts. 4.Improving SOP for financial assistance to faculty members for conferences, workshops etc. The task has been completed and SOP has been circulated. 4. Liberal Studies incorporation. Following courses either existed, or were introduced and improvised: a) Theory of Knowledge (SML160) b) Introduction to Society (SML162) c) Indian History and Constitution (SML163) d) General Proficiency in all the semesters (SMR101, SMR102, etc.) e) Introduction to Psychology (SML167) f) Introduction to Law (SML169) g) Fine Arts (SML171). 5. Efforts to uplift slow learners and those who have failed in the major tests. Sixteen modules were conducted for them.

No Files Uploaded !!!

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Incorporating project-based learning in curriculum	Every department either has such courses or has incorporated them
Efforts should be made to uplift slow learners and those who have failed in the major tests	Sixteen modules were conducted for them.
Steps to be taken to improve research, research scholars, quality of publications	Following were implemented in this regard: • Faculty commitments at the starting of Academic year • Regular DRC meetings • More members in SRC • Promotion through social media and personal contacts. 4.Improving SOP for financial assistance to faculty members for conferences, workshops etc. The task has been completed and SOP has been circulated.
Faculty to go for intership/externships	26 faculty members benifited from this initiative
Development of E-portfolio of students	It has been developed and is in use
Creation of Makers	Students from CSE and ECE departments make extensive use of tinkering lab. At the

Space	start of the semester, foot fall is low but in mid of Semester around 500 students get involved in making their projects
Developing Parental information system	It has been developed and is in use
Liberal studies would be an integral part of the curriculum	Following courses either existed, or were introduced and improvised:- a) Theory of Knowledge (SML160) b) Introduction to Society (SML162) c) Indian History and Constitution (SML163) d) General Proficiency in all the semesters (SMR101, SMR102, etc.) e) Introduction to Psychology (SML167) f) Introduction to Law (SML169) g) Fine Arts (SML171)
Introduction of Innovative courses and upskilling of faculty members	New specializations and courses were introduced. Three trainings were conducted and, 28 faculty, 5 research scholars and 4 technical staff were trained.

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Name of Statutory Body</th> <th style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Academic Council</td> <td style="text-align: center;">23-Dec-2020</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Academic Council	23-Dec-2020
Name of Statutory Body	Meeting Date				
Academic Council	23-Dec-2020				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2019				
Date of Submission	25-Feb-2019				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Student Admission Support: 1) Admission: Completely online and transparent and based on the minimum eligibility conditions and selection criteria. 2) Student portfolio creation to help student fulfill their career objectives. 3) Online feedback system every semester for students. 4) Biometric attendance for students in every classroom 5) Enterprise Resource Planning System (ERP) based on Cloud computing. 6) The Library and Information Resource Centre (LIRC) has rich collection of ebooks, ejournals and other online				

resources. 7) The Learning Management System (LMS) provides students with online access to the course content. Examination: 1) 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 2) ERP integration in the examination procedures and processes. Planning and Development: 1) Online feedback system every semester. 2) 24 hour monitoring of all institutional facilities using high profile CCD camera and related systems. Administration: 1) Biometric attendance for faculty and students in every classroom. 2) Online attendance record for faculty and staff. 3) Online fee deposition and receipt generation for students. 4) Enterprise Resource Planning System (ERP) based on Cloud computing. 5) 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 6) Portal for monthly salary slips. 7) Important notices and events on university portal. 8) The Learning Management System (LMS) provides students with online access to the course content. Finance and Accounts: 1) Online fee deposition and receipt generation for students. 2) Portal for monthly salary slips 3) Third party software for helping in e governance, financial management, internal and external audit

Part B

CRITERION I - CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	CS1	Computer Science Engg.	16/03/2019
BTech	ME1	Mechanical Engineering	30/05/2018
LLB	BL1	BBA-LLB (Hons.)	16/03/2019
BTech	CE	Civil & Environmental Engg.	15/03/2019
Mtech	CE	Civil & Environmental Engg.	15/03/2019
BTech	EC-1	Electrical, Electronics & Communication Engg.	02/02/2019
BBA	N/A	BBA	29/10/2018

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

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Computer Science Engg	Nil	Programming for Data Science (CSL225)	02/01/2019
BTech	Computer Science Engg	Nil	Statistics and Probability (CSL227)	02/01/2019
BTech	Computer Science Engg	Nil	Business Intelligence & Data Visualization (CSL232)	02/01/2019
BTech	Computer Science Engg	Nil	Data Mining and Warehousing (CSL234)	02/01/2019
BTech	Computer Science Engg	Nil	Scripting Languages (CSL235)	02/01/2019
BTech	Computer Science Engg	Nil	Introduction to AI and ML (CSL236)	02/01/2019
BTech	Computer Science Engg	Nil	Introduction to AI, ML and DL (CSL237)	02/01/2019
BTech	Computer Science Engg	Nil	Game Design Essentials (CSL241)	02/01/2019
BTech	Computer Science Engg	Nil	Artificial Intelligence for Games (CSL242)	02/01/2019
BTech	Computer Science Engg	Nil	Digital Asset Creation (CSL243)	02/01/2019

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1.2 - Academic Flexibility**1.2.1 - New programmes/courses introduced during the Academic year**

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Computer Science Engineering	02/01/2019
BTech	Computer Science Engineering	02/01/2019
BTech	Computer Science Engineering	02/01/2019
BTech	Computer Science Engineering	02/01/2019
BTech	Computer Science Engineering	02/01/2019
BTech	Computer Science Engineering	02/01/2019
BTech	Computer Science Engineering	02/01/2019
BTech	Computer Science Engineering	02/01/2019
BTech	Computer Science Engineering	02/01/2019
BTech	Computer Science Engineering	02/01/2019

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1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BA	Economics Hons.	29/10/2018
BA	Psychology Hons.	29/10/2018

1.3 - Curriculum Enrichment**1.3.1 - Value-added courses imparting transferable and life skills offered during the year**

Value Added Courses	Date of Introduction	Number of Students Enrolled
CCNA Cyber Security	25/07/2018	38
Game Tech 101	10/06/2019	10
MongoDB	10/06/2019	16
Cyber Security Essentials	10/06/2019	29
CCNA Module 3	03/01/2019	21
CCNA Module 2	17/08/2018	33
Human Values and Professional Ethics	15/03/2019	15
Enterpreneurship	15/03/2019	15
Problem Solving and Design Thinking	15/03/2019	15
Value Added Course - I	15/03/2019	15

[View File](#)**1.3.2 - Field Projects / Internships under taken during the year**

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Computer Science Engg	258
BTech	Computer Science Engg	415
BTech	Computer Science Engg	258
BTech	Computer Science Engg	182
MSc	Mathematics	20
MSc	Mathematics	20
BSc	Physics Hons.	15
BSc	Physics Hons.	30
BTech	Mechanical Engg	169
BTech	Electrical, Electronics & Communication Engg	57

[View File](#)**1.4 - Feedback System****1.4.1 - Whether structured feedback received from all the stakeholders.**

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Student Feedback:- Process involves capturing feedback from the students regarding teaching effectiveness of the faculty members. The process is implemented through ERP system through online submission in a fair and transparent manner. The students give feedback on the following parameters:- oral communication and presentation, depth of discussion and problem solving through examples, class interaction and participation, out of class consultation, fair evaluation, correlation between theory and practical applications, attitude, punctuality and inspiration. Once the feedback is compiled, a report is prepared by HR covering feedback analysis, summary and action taken. Observations concerned with each department are shared with the HODs who are required to have discussion with their faculty members. Detailed parameter specific feedback is shared with faculty members which enables them to improve upon their weak areas and facilitates better analysis of their teaching delivery. In addition student class committee comprising of meritorious students throughout the university meets with all the Functional Heads, Vice-Chancellor, Pro Vice-Chancellor, Directors and Deans

once every semester to discuss the concerns and inputs for improvement. Systematic feedback is prepared and conveyed to concern Heads for implementation. Action taken report is prepared, thus closing the loop. Faculty Feedback:- In Annual Faculty Appraisal form, faculty is asked for their suggestions if any assistance/support/guidance is needed from the Department/University for their professional growth. This feedback is discussed and logical steps are taken to implement them. Faculty members are part of several institutional level committees for functioning and improvement of the university. The view of faculty members are recorded in the minutes of the meetings of these committees which are further discussed for possible consideration and implementation. Employers:- School of Professional Attachment shares the feedback given by employers with concerned departments. The feedback comprises of components on soft skills, technical knowledge etc. The departments take note of this feedback to improve their teaching methodology, for introduction of new topics in various courses, for introducing new skill based courses and for incorporating other improvements suggested to ensure that the curriculum remains updated and industry relevant. In addition departments invite various experts from industries for their feedback about the curriculum. Alumni:- Each department maintains a dedicated Alumni committee for interaction with the Alumni. The Alumni are regularly invited on campus for giving their feedback and for giving career guidance to our students. In addition Alumni feedback form is available on our website. Parents Feedback:- Parents are important stakeholders of any academic institution. Hence a two way channel involving parents and the university is essential. Regular parent teacher meetings every semester is one such step in this direction. During these meetings parents interact with faculty members and Heads of the departments not only for taking feedback of their wards but also for giving feedback for the improvement of the university. In addition a parental feedback form is also available on the university website. Additionally, an online Parental Information System where parents can access the progress of their wards is also being prepared.

CRITERION II - TEACHING- LEARNING AND EVALUATION

2.1 - Student Enrolment and Profile

2.1.1 - Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Computer Science Engg, Mech. Engg,Electrical, Electronics & Communication Engg., Civil & Environmental Engg.	330	968	320
Mtech	Computer Science Engg	9	3	3
Mtech	Electrical, Electronics & Communication Engg.,	9	1	1
Mtech	Civil & Environmental Engg.	9	6	6
Mtech	Mech. Engg.	9	2	2
BSc	Maths (Hons.)	20	29	19
BSc	Physics (Hons.)	20	11	10
MSc	Maths (Hons.)	12	13	13
BBA	BBA	120	144	120
MBA	MBA	30	22	17

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2.2 - Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	2527	117	118	9	127

2.3 - Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
165	165	8	70	3	9

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

Student Mentoring program at NCU has been in place for more than seven years and is well established. The objectives of this program include, among others, to provide the first point of contact for the student for his academic and non-academic problems which he/she may have at campus. The students are encouraged to freely meet their mentors for discussions and guidance as required. The mentors provide guidance to their mentees on academic issues like proper course selection including various electives, career counselling including various placement and internship options available, avenues for higher studies in India and abroad, guidance for self-employment, guidance for appearing in various National and international competitive examinations and advise on various other issues of the students. Each student, when he/she enters the University is assigned a mentor who is normally a faculty member from his/her dept. This mentor is expected to continue with the mentee for the student's entire stay at NCU. A mentor has typically 25 mentees. The mentees are introduced to their mentors during the induction program through various interactive sessions wherein the mentors share useful information about the University. Subsequently, the mentors meet their mentees for a structured meeting at least once a month/week at prescheduled times/timetable. The mentor-mentee discussions are recorded, and the issues are raised to HOD level wherever required. Besides this scheduled meeting, mentees keep meeting their mentors individually whenever they need some guidance. Recently the university has started the process of e-portfolios which can be subsequently used for suitable placement of students. The e-portfolios will also record the special areas of interest of each student which will be picked up by mentors for facilitating them in achieving their goals. The mentor-mentee program at NCU has been running well and is helping the students in their career development.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2644	127	1 : 20

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers appointed during the year

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No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
139	127	12	12	84

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. Hukum Singh	Associate Professor	Got the Appreciation certificate
2018	Dr. Sunita Sharma	Assistant Professor	Life time membership of VIBHA
2018	Dr. Bharti Arora	Assistant Professor	Invitation by Bentham Science publications to join as a "Bentham Science Ambassador" from "India"
2018	Dr. Hukum Singh	Associate Professor	Deokaran Award for "Glass" - 2018
2018	Dr. Rita Chhikara	Assistant Professor	TedEd 2018 Appreciation

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2.5 - Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year-end examination
LLM	ML1	Even/2018-19	17/05/2019	06/06/2019
LLB	BL1	Even/2018-19	17/05/2019	06/06/2019
BCom	SM1	Even/2018-19	17/05/2019	06/06/2019
BBA	SM1	Even/2018-19	17/05/2019	06/06/2019
MBA	SM5	Even/2018-19	17/05/2019	06/06/2019
MSc	MA5	Even/2018-19	17/05/2019	06/06/2019
BSc	MA1	Even/2018-19	17/05/2019	06/06/2019
Mtech	CS,ME,EC,CV	Even/2018-	17/05/2019	06/06/2019

		19		
BTech	CS, ME, EC, CV	Even/2018-19	17/05/2019	06/06/2019

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2.5.2 - Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
35	2637	1.32

2.6 - Student Performance and Learning Outcomes

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

<https://www.ncuindia.edu/ncuupload/web%20links%20for%20PSO%20&%20PO.pdf>

2.6.2 - Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
CS (FT)	Mtech	Computer Science Engineering	8	6	75
CE	BTech	Civil & Environmental Engg.	33	33	100
ME	BTech	Mechanical Engineering	101	97	96
EC	BTech	Electrical, Electronics & Communication Engg.	64	64	100
CS	BTech	Computer Science Engineering	260	256	98.5
EC (FT)	Mtech	Electrical, Electronics & Communication Engg.	5	4	80
ME (FT)	BTech	Mechanical Engineering	1	1	100
CE (FT)	BTech	Civil & Environmental Engg.	4	3	75
MA1	BSc	Maths (Hons.)	23	23	100
MA5	MSc	Maths (Hons.)	10	10	100

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2.7 - Student Satisfaction Survey

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

<https://www.ncuindia.edu/wp-content/uploads/2020/11/MOM-February-20-2019.pdf>

CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities**3.1.1 - Teachers awarded National/International fellowship for advanced studies/ research during the year**

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. Hukum Singh	Deokaran Award for "Glass" - 2018	09/01/2019	Indian Ceramic Society
National	Dr. Anjali Garg	Research grant	20/03/2019	DST

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3.1.2 - Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
Shradha Singh Parihar	1826	NCU
Priyanka Maan	1645	NCU
Anshul Vats	1277	NCU
Manju dabass	1279	NCU
Ghanishtha narang	761	NCU
Deepika Bansal	1645	NET- DST
Pallavi Asthana	1461	NCU
Jyoti Dabass	1095	NCU
Poonam Yadav	549	NCU
Khushbu Gupta	1280	NET-SRF

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3.2 - Resource Mobilization for Research**3.2.1 - Research funds sanctioned and received from various agencies, industry and other organisations**

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	1095	SERB (DST)	42	8
Any Other (Specify)	1095	DST- CSRI	31.88	15.98
Any Other (Specify)	1095	DST- CSRI	19.59	9.1

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

Title of workshop/seminar	Name of the Dept.	Date
Guest Lecture on Access Control List and SDWAN	Computer Science Engg.	10/09/2018

Guest Lecture on 'Firewall and Routing Algorithms	Computer Science Engg.	13/11/2018
Guest Lecture on Agile Methodology using SCRUM	Computer Science Engg.	18/04/2019
A technical lecture on past, present and future refrigerants	Mechanical Engineering	24/09/2018
Arithmetics by Vedic Mathematics	Mechanical Engineering	26/04/2019
Sustainable Manufacturing: The Future	Mechanical Engineering	12/02/2019
Types of Air conditioning systems	Mechanical Engineering	04/02/2019
Emerging trends of 3-D Printing	Mechanical Engineering	10/04/2019
Emerging trends in Additive Manufacturing	Mechanical Engineering	20/05/2019
workshop on the theme 'Why Intellectual Property is must for all?'	School of Law	13/08/2018

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3.3.2 - Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Won National Level Client Counselling Competition hosted by Mararishi Markandeshwar (Deemed to be University) Mullana-Ambala (Haryana)	Amardeep Chahal Mayank Dahiya	National Level Client Counselling Competition hosted by Mararishi Markandeshwar (Deemed to be University) Mullana-Ambala (Haryana)	27/09/2018	Won National Level Client Counselling Competition hosted by Mararishi Markandeshwar (Deemed to be University) Mullana-Ambala (Haryana)
A case study on Women Education during National Social Summit 2019, organised by I.I.T Roorkee	Amardeep Chahal Mayank Dahiya	National Social Summit 2019, organised by I.I.T Roorkee	08/02/2019	A case study on Women Education during National Social Summit 2019, organised by I.I.T Roorkee
National Client Consultation Competition (L'ÉGALITÉ) Runners Up Team	Amardeep Chahal Mayank Dahiya	National Client Consultation Competition (L'ÉGALITÉ)	13/04/2019	National Client Consultation Competition (L'ÉGALITÉ)

				Runners Up Team
National Negotiation Competition Runners Up	Amardeep Chahal Mayank Dahiya	National Negotiation Competition organized by the Symbiosis Law School, Noida	15/02/2019	National Negotiation Competition Runners Up
Defies Faced by consumer in e-commerce Transanctions with Special emphasis on Digital Economy in Indian and European Union	Unanza Gulzar	IGI Global, Pennsylvania, Chocolate Ave, Hershey, PA 17033 USA	10/01/2019	Defies Faced by consumer in e-commerce Transanctions with Special emphasis on Digital Economy in Indian and European Union
Best Paper Award	Rita Chhikara	ICCI-SEM 2019	06/04/2019	Best Paper Award
TCS Extended Reality 2019c(won 2nd prize)	Akhil Sharma and Abhishek Chauhan	TCS	27/03/2019	TCS Extended Reality 2019c(won 2nd prize)
VC Innovation fund: Smart car management system	Dr Anjali Garg	The NorthCap University	01/03/2019	VC Innovation fund: Smart car management system
6th International Exhibition and Conference GRIDTECH-2019 from 3rd to 5th April 2019 at ITPO, Pragati Maidan, New Delhi (Rs. 20K each)	1.Yashika Chauhan and Monali Kar "Iot Based Air Pollution Monitoring System" 2. Srishti Singhal and Sachin Singh Chauhan "Agrobot- An Autonomous Agriculture multi-purpose robot" 3.Aakansha Paul and Isha Gupta "Hand Gesture Recognition System For S	POWERGRID with the support of Ministry of Power and in association with CBIP and IEEMA	03/04/2019	6th International Exhibition and Conference GRIDTECH-2019 from 3rd to 5th April 2019 at ITPO, Pragati Maidan, New Delhi (Rs. 20K each)
SPIE Student Chapter Leadership Workshop	Ms.Yashika Chauhan and Ms.Chinmayi	The International Society for Optics and Photonics	21/04/2019	SPIE Student Chapter

in YOKOHAMA, JAPAN. Financial aid worth \$3030.	(SPIE) ADDRESSES Mailing: SPIE PO Box 10 Bellingham WA 98227-0010 USA Shipping: SPIE 1000 20th St. Bellingham WA 98225- 6705 USA	Leadership Workshop in YOKOHAMA, JAPAN. Financial aid worth \$3030.
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3.3.3 - No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Master Jagannath Centre for Excellence and Incubation	Master Jagannath Centre for Excellence and Incubation	Self	PRASI STYLE	Fashion Jewellery	08/09/2018
Master Jagannath Centre for Excellence and Incubation	Master Jagannath Centre for Excellence and Incubation	Master Jagannath Centre for Excellence and Incubation	Khaanpann.com	Online Food Aggregator	07/08/2018

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3.4 - Research Publications and Awards

3.4.1 - Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Applied Science	2
Civil Environment Engg	1
Computer Science Engg.	6
Mechanical Engg.	4
School of Management	1
Electrical Electronics Communication Engg	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical Engineering	12	0.91
National	Applied Sciences	1	Nil
International	Applied Sciences	33	1.96
International	Civil Environmental Engg.	7	0.42
International	Centre for Languages Learning	1	0

International	Computer Science Engg.	22	0.4
International	Electical, Electronics Communication Engg.	28	1.21
International	School of Law	3	5.78

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3.4.3 - Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Applied Sciences	21
Civil Environmental Engg.	1
Computer Science Engg.	24
Computer Science Engg./Information of Technology	1
Electical, Electronics Communication Engg.	22
Mechanical Engineeing	7
School of Law	1
School of Management and Liberal Studies	3

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3.4.4 - Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
SOABER: SOAP WITH SCRUBBER AT THE BACK (Dr. Esha Jain, Dr. Satnam Singh, Mr. Praveen Singh and Dr. Akanksha Mathur)	Published	201911018692	Null
Fuel indicator and global fuel pump detection system (Dr. Anjali, Ms. Smridhi, Mr. prithu, Mr. Abhijeet, Mr. Mayank)	Published	201821042797	Null
Anti Clogging Drainage system (Dr. Anjali, Ms. Smridhi, Mr. prithu, Mr. Abhijeet, Mr. Mayank)	Published	201821042797	Null
D-Dustbin: Digital Dustbin (Dr. Sharda Vashisth, Dr. Neeraj Kumar Shukla, Dr. Anjali, Dr Rekha, Mayank Arora, Naresh, Nitin)	Published	201821029058	Null
IP-System: Intelligent Printer System to Remove Text on Paper and Reuse of Paper and Ink (Dr. Sharda Vashisth, Dr. Neeraj Kumar Shukla, Dr. Anjali)	Filed	E25/FA/2431/201	Null
ASB-WATER DISTRIBUTION : AUTOMATIC BIOMETRIC REGISTRATION-BASED WATER DISTRIBUTION SYSTEM (ESHA JAIN)	Published	201911023311	Null

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3.4.5 - Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Enhancing Security of Double Random Phase Encoding Based on Random S-Box	R. Girija and Hukum Singh	3D Research	2018	9	NCU	9
A Cryptosystem Based On Deterministic Phase Masks And Fractional Fourier Transform Deploying Singular Value Decomposition	R. Girija and Hukum Singh	Optical and Quantum Electronics	2018	22	NCU	22
Statistical characteristics and performance evaluation of FSO links with misalignment fading influenced by correlated sways	Himanshu Khanna, Mona Aggarwal and Swaran Ahuja	AEU - International Journal of Electronics and Communications	2018	5	NCU	5
Modelling Effectiveness of Organisational Learning: an Interpretive Structural Modelling Technique	Mani Bansal, Anil Kumar Vij and Ruchi Nayyar	International Journal of Environmental Technology and Management	2018	1	NCU	1
Circular material resource consumption for sustainability of manufacturing growth: a System Dynamics analysis	Ravindra Ojha and Prem Vrat	International Journal of Manufacturing Technology and Management	2018	2	NCU	2
Drinking water quality problem in Haryana, India: prediction of human health risks, economic burden and assessment of possible intervention options	Ruchi Gupta and Anil Kumar Misra	Environment, Development and Sustainability	2018	6	NCU	6
An Intelligent Noninvasive Model For Coronary Artery Disease Detection	Luxmi Verma, Sangeet Srivastava and Prakash Chandra Negi	Complex Intelligent Systems	2018	10	NCU	10
Study Of Electrical And Optical Properties Of Ge ₂₇ Se ₅₈ Pb ₁₅ Chalcogenide Glass	Deepika, Hukum Singh, Kuldeep Singh Rathore and Narendra Sahay Saxena	Journal of Asian Ceramic Societies	2018	5	NCU	5

Impact of various factors on stock-induced food waste in Indian weddings A system dynamics approach	Neeta Sharma and Prem Vrat	Journal of Advances in Management Research	2018	2	NCU	2
Pd Catalyzed N1/N4 Arylation of Piperazine for Synthesis of Drugs, Biological and Pharmaceutical Targets: An Overview of Buchwald Hartwig Amination Reaction of Piperazine in Drug Synthesis	Vaibhav Mishra and Tejpal Singh Chundawat	Current Organic Synthesis	2018	3	NCU	3

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Pd Catalyzed N1/N4 Arylation of Piperazine for Synthesis of Drugs, Biological and Pharmaceutical Targets: An Overview of Buchwald Hartwig Amination Reaction of Piperazine in Drug Synthesis	Vaibhav Mishra and Tejpal Singh Chundawat	Current Organic Synthesis	2018	44	3	NCU
Impact of various factors on stock-induced food waste in Indian weddings A system dynamics approach	Neeta Sharma and Prem Vrat	Journal of Advances in Management Research	2018	17	2	NCU
Study Of Electrical And Optical Properties Of Ge ₂₇ Se ₅₈ Pb ₁₅ Chalcogenide Glass	Deepika, Hukum Singh, Kuldeep Singh Rathore and Narendra Sahay Saxena	Journal of Asian Ceramic Societies	2018	28	5	NCU
Drinking water quality problem in Haryana, India: prediction of human health risks, economic burden and assessment of possible intervention options	Ruchi Gupta and Anil Kumar Misra	Environment, Development and Sustainability	2018	52	6	NCU
Circular material resource consumption for sustainability of manufacturing growth: a System Dynamics analysis	Ravindra Ojha and Prem Vrat	International Journal of Manufacturing Technology and Management	2018	20	2	NCU

Modelling Effectiveness of Organisational Learning: an Interpretive Structural Modelling Technique	Mani Bansal, Anil Kumar Vij and Ruchi Nayyar	International Journal of Environmental Technology and Management	2018	20	1	NCU
Statistical characteristics and performance evaluation of FSO links with misalignment fading influenced by correlated sways	Himanshu Khanna, Mona Aggarwal and Swaran Ahuja	AEU - International Journal of Electronics and Communications	2018	53	5	NCU
A Cryptosystem Based On Deterministic Phase Masks And Fractional Fourier Transform Deploying Singular Value Decomposition	R. Girija and Hukum Singh	Optical and Quantum Electronics	2018	54	22	NCU
Enhancing Security of Double Random Phase Encoding Based on Random S-Box	R. Girija and Hukum Singh	3D Research	2018	17	9	NCU
Multiwalled Carbon Nanotube Modified Microfluidic-Based Biosensor Chip For Nucleic Acid Detection	Aditya Sharma Ghrera, Chandra Mouli Pandey and Bansi Dhar Malhotra	Sensors and Actuators, B: Chemical	2018	184	19	NCU

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3.4.7 - Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	12	11	11	13
Presented papers	36	8	Nil	Nil
Resource persons	6	10	Nil	2

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3.5 - Consultancy

3.5.1 - Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Maruti Suzuki India Ltd. (MSIL)/Mechanical Engg.	109th All India Trade Test (AITT) practical exam for MSIL apprentice	Smart Skills, training partner of MSIL	195000
Kusum Grewal/Electrical, Electronics Communication Engg.	Precise time synchronization between clocks in a dynamic network of sensors	DLRL lab Hyderabad	1000000

The NorthCap University Testing Centre/Civil Environmental Engg.	Mix Design of OPC PPC	VNC Private LTD.	56000
The NorthCap University Testing Centre/Civil Environmental Engg.	Testing of Paver Blocks	Raj Darbar Realty Pvt. Ltd.	4500
Dr. Pranati Purohit/Applied Sciences	Scientific Aptitude and Thinking	Kannad Sangha	80000
Dr. Ambika Sharma/Applied Sciences	Electrical characterization of Samples	Jamia Millia University	4000
Dr. Ambika Sharma/Applied Sciences	Optical characterization of Samples	Amity University, Noida	2000
Maruti Suzuki India Ltd. (MSIL)/Mechanical Engg.	108th All India Trade Test (AITT) practical exam for MSIL apprentice	Smart Skills, training partner of MSIL	195000

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3.5.2 - Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Faculty - Dr. Archanaa Donge, Dr. Vaishali Sahu, Mr. Lokesh Choudhary, Mr. Shubham Bansal, Mr. Diptendu Roy. Industry Expert - Mr. Sahil Sachdeva (Level up consultancy and construction (Civil Environmental En	Executive Development Program on Smart and Sustainable Building Materials	Raj Darbar Realty Pvt. Ltd.	55000	13

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3.6 - Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Road Safety Awareness Session	Road Safety Cell, Delhi Traffic Police	2	60
Education Drive	NCU	1	35
Donation Drive	NCU	1	38
Blood donation	NCU	1	250
Womens Day Celebration	Rotract Club of NCU	1	25

Visit to Earth Saviours Foundation	Rotract Club of NCU	1	12
Installation Ceremony - shapath	Rotract Club of NCU	1	45
Session Organised in school	Rotract Club of NCU	1	20
Visit to old age home	Rotract Club of NCU	1	17
Diwali Donation	Rotract Club of NCU	1	13

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
(Hybrid Vehicle Championship)	Clearing the Technical Inspection at the event, the team attained 4th rank at the All India Level.	organization ISIE (Imperial Society for Innovative Engineers)	38
Swachta Ranking	Rank No. 2 among Cleanest Higher Educational University (Non Residential)	MHRD	2644
Research on Text Analyzer and Data Visualizer	Young Achiever Award	Institute of Scholars, Bangalore	1
DeoKaran award	DeoKaran award for Glass by Indian Ceramic Society	CSIR-CGCRI	Nil
Regional Level 16th All India Moot Court Competition for students- 2018	Winner	Northern India Regional Council of The Institute of Company Secretaries of India	1
NIRF ranking	NIRF ranked 117	NIRF	2644

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3.6.3 - Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
NCU	Road Safety Cell, Delhi Traffic Police	Road Safety Awareness Session	2	60

NSS	NCU	Education Drive	1	35
NSS	NCU	Donation Drive	1	38
NSS	NCU	Blood donation	1	250
Awareness against women centric issues	Rotract Club of NCU	Womens Day Celebration	1	25
Mental Health Awareness	Rotract Club of NCU	Visit to Earth Saviours Foundation	1	12
Beti Bachao Beti Padhao	Rotract Club of NCU	Session Organised in school	1	20
Understanding need of elderly people	Rotract Club of NCU	Visit to old age home	1	17
Awareness for Aids	Rotract Club of NCU	Condom Distribution Drive	1	97
Understanding Joy of giving	Rotract Club of NCU	Diwali Donation	1	13

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3.7 - Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Research	1	NA	1825
Lab visit and research	1	NA	1095
CCNA Module 3 certification	21	NA	183
CISCO Certification for Module-2	33	NA	183
Cybersecurity Learn-A-Thon	38	NA	15
Workshops	38	NCU	1
Coca Cola (Baddi, Himachal) Industrial Visit	17	NA	1
Khodri Power House Industrial Visit	64	NA	2
ONE DAY INDUSTRIAL VISIT Mother Dairy Plant, New Delhi	60	NA	1
Industrial Visit to Yakult Danone India Pvt. Ltd., Sonapat, Haryana.	197	NA	1

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3.7.2 - Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
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Internship	Graphic designing	Citylink	07/06/2019	31/08/2019	1
Internship	Digital Marketing	Muchchad	20/05/2019	19/07/2019	1
Internship	Practical analysis, implentation and mitigation study of web and network Vulnrabilities	Pyramid Cyber Security	20/05/2019	19/07/2019	1
Project	Upgradation of SPA Portal	School Of Professional Attachment (Placement Cell) under The Northcap University	06/06/2019	15/07/2019	1
Project	MenteeChain Development	MenteeChain	15/04/2019	15/10/2019	4
Internship	Global Supplier Classification	Abbott	20/06/2019	19/07/2019	1
Project	Freshfruitkart (An E-commerce app)	Pie Infosystems-A Software development company , Gurugram	15/06/2019	15/09/2019	1
Internship	Digital Marketing	DMDS School of Digital Marketing PVT LTD	01/06/2019	31/08/2019	1
Project	Android Team	IntelliSpirit	01/01/2019	01/03/2019	3
Project	Python Team 1- Test Enablement and Data Collation-	IntelliSpirit	01/01/2019	01/03/2019	2

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
ISRO-SAC Ahemdabad	05/02/2018	Installation of the IRNSS receivers and research on mutually agreed topics	20
Rajdarbar Realty Pvt. Ltd	12/02/2019	Internship, Placement, Consultancy	4
Chartered Institute of Management Accountants (CIMA)	02/01/2019	Lectures, Workshops and Seminars	8
Latest laws	06/08/2018	workshop on the theme 'Why Intellectual Property is must for all?'	100
Bookchor	06/09/2018	Internship	1
Ansys Consulting	06/09/2018	Internship	3
VDoIT	25/10/2018	Internship	5
Latest laws	06/08/2018	International Conference on "interface between law and Technology"	80
Latest laws	06/08/2018	workshop on Protection of Juvenile Justice	100
Latest laws	06/08/2018	Webinar on "what avails our criminal justice delivery system"	200

[View File](#)**CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES****4.1 - Physical Facilities**

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
150	162.92

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

[View File](#)**4.2 - Library as a Learning Resource**

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Libsys	Fully	Libsys 10	2008

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	64235	12038717	1167	582077	65402	12620794
Reference Books	4542	1676542	87	69293	4629	1745835
e-Books	28	271716	Nil	Nil	28	271716
Journals	179	949660	Nil	Nil	179	949660
e-Journals	21097	4111571	Nil	Nil	21097	4111571
Digital Database	8	4383287	Nil	Nil	8	4383287
CD & Video	1471	Nil	Nil	Nil	1471	Nil

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. Jagdeep Kaur	Discreate Structure	LMS	23/07/2018
Ms. Meghna Sharma	Foundation of Data Science	LMS	23/07/2018
Dr. Rita Chhikara	Data Structures	LMS	23/07/2018
Dr. Shilpa Mahajan	Cyber Security	LMS	23/07/2018
Dr. Vijendra Singh	ADA	LMS	23/07/2018
Dr. Yogita Gigras	FOCP-1	LMS	23/07/2018
Mr. Sandeep Singh	Python	LMS	23/07/2018
Ms. Anuradha Dhull	Operating System	LMS	23/07/2018
Ms. Garima Sharma	ADA	LMS	23/07/2018
Ms. Garima Sharma	IT skills for decision making	LMS	23/07/2018

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4.3 - IT Infrastructure

4.3.1 - Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	895	23	2	1	0	50	24	150	0
Added	50	0	0	0	0	0	0	150	0
Total	945	23	2	1	0	50	24	300	0

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

300 MBPS/ GBPS

4.3.3 - Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
LMS, OTMS	Null

4.4 - Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
350	503.31	680	714.16

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

The general administration of the University is being taken care by the Registrar, Functional Heads, and Head of the Departments as well as the Top Management. However, to encourage active participation of students in the general administration, a number of sub-committees are being constituted at 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. Sub-committees pertaining to physical, academic and support facilities are as follows: 1. Infrastructure Sub-committee 2. ERP Sub-committee 3. Academics Sub-committee 4. Feedback (Student Redressal Mechanism) Sub-committee 5. Library Sub-committee 6. IT related issues Sub-committee 7. Student Activities Leadership Sub-committee In addition to the above, an experienced Estate Manager is on board who prepares the plan for 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 infrastructure facilities, services and equipment are maintained in the following manner: Lab Equipment:- The requirements of the lab equipment are based on the students' strength, courses being offered to the students and research requirements in every semester. Lab equipment are serviced and calibrated regularly. Each department/school has its own technical staff for each lab. to look after its maintenance and service. Library:- Library records are maintained through Library Management system software Libsys, with barcode printer bar code reader LASER gun. Apart from this, the library committee members regularly ensure improvement of access, quality of books and other information resources in library. Arboriculture:- A dedicated team of 12 gardeners look after our arboriculture. Due to its state of art landscaped environment, the university has been winner of HUDA garden competition in Gurugram for the 16th consecutive year. Sports:- The Sports Section has full time Ground men who regularly maintain and clean the sports facilities and grounds. There is a well-defined process to purchase sports equipment and stock registers are maintained after receiving the. The students are issued sports equipment as per their requirement and the details of issuing and receiving is maintained on daily basis. Maintenance of service (Electrical, W/S, A/C, Plumbing, Sewage):- All the services are maintained in-house, through a team of masons, carpenters, electricians and plumbers. Housekeeping:- 24X7 housekeeping efforts available through 47 housekeeping staff equipped with various mechanized cleaning systems and hygiene chemicals. Furniture:- Furniture maintenance and renewal is outsourced to a team of carpenters. Security system:- Security system with mobile patrolling, walkie-talkie communication and 26 security staff/security officers/ control room with 180 CCTV cameras giving real time information. Parking:- Manned Parking for 220 cars and 150 two wheelers inside campus and Manned student parking. Computer labs:- Before the beginning of each semester, requirement is gathered from each department which is cross checked by the lab-in-charge and respective heads of departments. The requirement is submitted to the ICT administrator for further processing. Physical infrastructure:- Estate manager in consultation with infrastructure sub-committee ensures upgradation, proper upkeep, maintenance and functioning of university infrastructure.

<https://www.ncuindia.edu/ncuupload/Procedures%20for%20maintaining%20and%20utilizing%20physical.pdf>

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit cum Means and Deans List	222	10073975

Financial Support from Other Sources			
a) National	PG-GATE by UGC	2	615200
b) International	Nil	Nil	Nil

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Disease free fraternity	26/07/2018	75	Dr Sahay, Delhi pain management centre, New Delhi
Swachh Bharat summer Internship-100 hours of swachhata	01/05/2018	34	Saumya Dixit, SOM
Science Exhibition	10/10/2018	60	Presidium School, DAV public school, Lions public school, SDMS, GSS
New Technology Trends in Telecom Industry	27/03/2019	65	G.M. Networking, Huawei Telecommunication, Gurugram
Environmental Awareness	13/03/2019	35	Mr Manuj Chandra from Mages
How to convert an idea into patent	14/08/2018	20	Project Director, TCS-G Software Pvt. Ltd. Pune, MH, India
CMOS Technology	04/10/2018	60	R D Engineer, Logic fruit Technology
What to do After B.Tech?	11/10/2018	45	Chief knowledge expert: Triumphant Institute of Management Education (T.I.M.E)
Communication Networks Evolution and the Road to 5G	03/10/2018	55	Nokia , Sales Head
Nothing Can stop a Great Idea	03/11/2018	40	CEO- Richa Maheshwari Films and Photography, Head and cofounder- 12 Min. App, CEO and Founder -MobyCy App

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	A career counselling session for preparation of CLAT (SOL)	120	Nil	6	Nil
2018	Training programme on Drafting,	Nil	100	Nil	Nil

	Pleading and Formatting of Moot Memorials (SOL)				
2018	Carrer Counselling Session Conducted Through SPA	Nil	1786	Nil	392
2018	GATE self study course (CSE)	258	Nil	2	Nil
2018	NCU-GATE (ECE)	60	Nil	2	Nil
2018	Co-Cubes test, Pre placemnet interviews, Mentoring (Batch 2015-2019) (ECE)	Nil	60	Nil	32
2018	NCU GATE (ME)	91	Nil	5	Nil
2018	Skill Test (SOM)	273	Nil	Nil	Nil
2018	Corporate to Campus theme career counselling (SOM)	Nil	78	Nil	Nil
2018	Aptitude test (SOM)	180	Nil	Nil	Nil

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
6	6	1

5.2 - Student Progression

5.2.1 - Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Deloitte, OPTUM - A UnitedHealth Group Company, Fidelity International, Gemini Solutions, Vegazva Engineering, Nagarro etc.	374	354	Nil	Nil	Nil

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5.2.2 - Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	1	B.Sc. (H) Mathematics	Applied Science Dept.	THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY, PATIALA	M.Sc. (Mathematics)

2018	1	B.Sc. (H) Mathematics	Applied Science Dept.	SYBIOSIS INSTITUTE OF BUSINESS MANAGEMENT, BENGALURU	M.B.A.
2018	1	B.Sc. (H) Mathematics	Applied Science Dept.	Delhi university	M.Sc. (Mathematics)
2018	1	B.Sc. (H) Mathematics	Applied Science Dept.	JC BOSE UST YMCA University	M.Sc. (Mathematics)
2018	1	B.Sc. (H) Mathematics	Applied Science Dept.	LBS Institute Of Management	M.B.A.
2018	1	B.Sc. (H) Mathematics	Applied Science Dept.	Omwati University	B.Ed.
2018	1	B.Sc. (H) Mathematics	Applied Science Dept.	Amity University, Noida	M.Sc. (Mathematics)
2018	1	B.Sc. (H) Mathematics	Applied Science Dept.	NorthCap University	M.Sc. (Mathematics)
2018	1	B.Sc. (H) Mathematics	Applied Science Dept.	Manav Rachna University	M.Sc. (Mathematics)
2018	1	B.Sc. (H) Mathematics	Applied Science Dept.	Kanpur University	M.Sc. (Mathematics)

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

Items	Number of students selected/ qualifying
NET	3
GATE	19
CAT	5
GRE	1
TOFEL	1
Any Other	8

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

Activity	Level	Number of Participants
Interdepartment sports tournament 8	University Level	50
Momentum 8	University Level	250
Freshers Day Celebrations 8	University Level	250

Engineers day celebrations 8	University Level	140
Teacher's Day Celebrations 8	University Level	50
interdepartment chess tournament 8	University Level	15
Interdepartment table tennis tournament 8	University Level	20
Club and society fest 8	University Level	100
Independence Day Celebrations 8	University Level	80
Orientation Programme - 2018 8	University Level	500

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5.3 - Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Third Position	National	1	Nil	15MEU069, 16MEU076, 17CVU001, 14MEU036, 15BSM003, 14ECU065, 14ECU073, 16ECU075, 15BBA116, 16CSU128	Rohit Jhakar, Yogansh Kwatra, AbhinavTyagi, KamalGoyal, AnshulKhokher,
2018	Runner up	National	1	Nil	17csu085, 17meu014, 14csu229, 1411b006, 15csu077, 16bba005, 16csu068, 16csu137, 1611b029, 15bba073,	Ishant Yadav, Aadarsh Rai, VineetKhana, Ansh Gupta, Heemal Yadav, Abhimanyu, Ashish Solanki, HarmeetThukran, Himanshu Yadav, Rohan Yadav
2018	Runner up	National	1	Nil	15csu226, 17csu133, 16csu166, 17csu114	Shubham Jain, Parth Bahl, Karan Joon, Mohit
2018	Third Position	National	1	Nil	15csu178, 15csu168, 15csu192, 16ecu038, 16bba096, 1711b081, 1511b024, 16ecu069, 18csu188, 15csu191	Rajyeshree, Purna, Rupali, MushkanRai, Purnima, Riya, Francita, SwetaDixit, SonaliYadav, RupalKapoor
2018	First Position	National	1	Nil	14csu229, 1411b006, 15csu077, 16bba05, 16csu068,	VineetKhana, Ansh Gupta,

					16csu137,1611b029,15bba073,14meu120,16csu429	HeemalYadav,Abhimanyu, AshishSolanki, HarmeetThukran, Himanshu Yadav, Rohan Yadav, RohitYadav, YashParashar
2018	Nil	International	1	Nil	18bba122	Chitranjan kumar

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

The NorthCap University believes in 'students first' as its motto and ensures that students are 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. Although Government of Haryana does not encourage student council and Unions but we have 'Student Class Committee' and 'Dean's List of Students' which fulfils the parameters of the student council. This, of course, is in addition to the many institutional level committees where students are active members. The nature of the issues raised by Student Class Committee are combination of both academic as well as non-academics matters, such as- infrastructure, essential supplies, health and sanitisation, attendance, course curriculum, IT, placement and other related matters. The NorthCap University also has other several Student Committees that function in the interest of building student profiles and enriching 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 objective of the committee is to improve the standards and expand the variety of extra-Curricular activities at the campus with regard to the cultural festival, the technical festival, and competitions like hackathon, coding etc. It encourages students to participate and organise more intercollege/interstate competitions both within the campus and outside. The committee ensures that proper sports facilities are available for students and tries to expand to the extent possible the sports and other extra-curricular activities at NCU. The University has many 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, a Secretary, a Treasurer and several members. The clubs recruit new members every year and conduct around three to four activities per semester. Students are responsible for the complete conduct of the event. The faculty coordinators associated with the clubs oversee the events and ensure smooth conduct of the event. Momentums, the annual cultural and technical festivals of the University are conducted annually in the month of October. A three-tier team of students manages the conduct of the festival. The team comprises of the Core Team members, the Main Team and the Event Coordinators. Apart from this students active participation can also be seen in various sub-committees as well which includes: • 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 The university is a product of students and if the welfare of the students are paramount then only one can say that the Institution is growing and developing.

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

No

5.4.2 - No. of registered Alumni:

3000

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

300000

5.4.4 - Meetings/activities organized by Alumni Association :

Number of Alumni Association Meetings are Five. Dates of meetings and number of members attended 1. 20/10/18 and 600 2. 25/01/19 and 33 3. 15/03/19 and 20 4. 12/04/19 and 10 5. 10/05/19 and 15

CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

The NorthCap university strongly believes and practices the philosophy of participation of all its stake holders for its improvement, and management. In addition to many other initiatives taken by the university to involve its stakeholders, the university has constituted several important functioning committees at all levels where stake holders are invited either as members or as special invitees on rotation basis, thus ensuring participative management. These committees are invested with suitable powers to take decisions as defined by their respective scope of operation, thus ensuring decentralization powers within the university.

1) Decentralization Participative Management by students: The NorthCap University believes in 'students first' as its motto and ensures that students are 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. For this, university has two student bodies called as 'Student Class Committee' and 'Dean's List of Students'. This, of course, is in addition to the many institutional level committees where students are active members. The functioning of various formal bodies/committees where students are members are as follows: a) Student Class Committee. b) Dean's list of students. c) Internal Quality Assurance Cell (IQAC). d) Infrastructure Sub-committee. f) ERP Sub-committee. g) Academics Sub-committee. h) Feedback (Student Redressal Mechanism) Sub-committee. i) Library Sub-committee. j) Admissions Sub-committee. k) IT related issues Sub-committee. l) Career and Placements Sub-committee. m) Professional Societies Sub-committee. n) Student Activities Leadership Sub-committee o) Alumni Connect Sub-committee. p) Students Grievance Redressal Committee. 2) Decentralization Participative Management by Faculty Members: The NorthCap university strongly believes and practices the philosophy of participation of all its stake holders for its improvement, and management. In addition to many other initiatives taken by the university to involve its stakeholders, the university has constituted several important functioning committees at all levels where stake holders are invited either as members or as special invitees on rotation basis, thus ensuring participative management. These committees are invested with suitable powers to take decisions as defined by their respective scope of operation, thus ensuring decentralization powers within the university. a) Academic Council Committee. b) Committee of Directors/Deans of schools and head of the departments. c) Examination Committee. d) Finance Committee. e) Board of studies for each Department/Schools. f) Internal Quality Assurance Cell. g) Board of Doctoral Research. h) Departmental Research Committees. i) Institution Innovation council. j) Grievance

Redressal Committee. k) Committee for Women Empowerment and Welfare (Internal Complaint). l) Anti-ragging committee. m) Disciplinary committee. n) SC / ST Committee. o) Student Class Committee. p) Digital learning and monitoring cell. q) Infrastructure Sub-committee. r) ERP Sub-committee. s) Academics Sub-committee. t) Feedback (Student Redressal Mechanism) Sub-committee. u) Library Sub-committee. v) Admissions Sub-committee. w) IT related issues Sub-committee. x) Career and Placements Sub-committee. z) Professional Societies Sub-committee. A1) Student Activities Leadership Sub-committee. B1) Alumni Sub-committee. In addition to above committees, strong feedback process from stake holders through many formal and informal channels is in place. All meetings are held regularly, and minutes/action taken report as appropriate is prepared.

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

Yes

6.2 - Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	1) Introduction of specializations 2) Introduction of new relevant programmers as per current trends 3) Creation of required infrastructural facilities. 4) Formation admission subcommittee and dedicated admission cell. 6) Dedicated admission help-line numbers. 7) Online admission portal.
Industry Interaction / Collaboration	1) Input of industrial experts for improvement of curriculum. 2) Mentors from industry for students. 3) Compulsory internships for all students. 4) Live industry based projects. 5) MOUs with many industries. 6) Expert lectures by industry experts. 7) Labs in collaboration with industry. 8) Industry sponsored technical and non-technical events. 9) Industry sponsored research projects. 10) Faculty training by industry experts. 11) Industry visits of students and faculty members.
Human Resource Management	1) Strategic Workforce Planning • Identifying rich recruitment sources • Utilizing full recruitment potential • Employer branding • Workforce segmentation • Skillset mapping 2) Competitive Advantage • Intellectual capital building • Succession planning (rotation policy) • Hiring for future • Creating talent pool 3) Talent Acquisition • Understanding manpower requirements. • Screening of candidates to get right fit. • Job descriptions. • Teaching commitment norms. 4) Recruitment Process • Transparent and merit based selection process. • Assessment by external subject experts. • Induction (within 2 days of joining). • Orientation of new joinee. 5) Organization Culture Building • Safe and secure campus. • Zero harassment incident. • Zero delays in salary credit to salary account. • Grievance redressal . • Quick resolution within 48 hours. • Transparent and fair dealings. 6) Well defined leave rules and flexible timings.
Research and Development	1) Financial support to faculty members for attending conferences and workshops, for filing patents and for completing certified courses. 2) Financial support to faculty members and students in the form of Vice Chancellors Innovation Fund (VCIF) for conducting the activities of research and innovation is available to faculty members. 3) Focus on Quality Publications as recommended by NIRF (Web of Science, Scopus). 4) Strong emphasis on unpaid publications and discouraging paid ones. 5) Central Research Facility. 6) 'Zero Tolerance Policy' violation of ethical standards of research. 7) Free access of 'Turnitin' software. 8) Well-defined PhD

	<p>rules and regulations. 9) Very active Research Development and Industrial Liaison (RDIL) office. 10) Mentoring and guidance of faculty members from renowned academicians and researchers. 11) 360 degree appraisal system.</p>
Examination and Evaluation	<p>1) Continuous evaluation system. 2) Time bound declaration of results in short span of time. 3) Transparent evaluation system. 4) Showing of checked answer script to students. 5) ERP system for results generation. 6) Online quizzes. 7) Centralized conduct of Internal and End-Semester Examinations. 8) Automation of Examination System. 9) Vetting of question papers.</p>
Curriculum Development	<p>1) Input from all stakeholders for developing curriculum. 2) Well defined procedure for development and approval of curriculum. 3) Value added courses 4) Module for slow learners 5) Mandatory internships for all students. 6) Bench marking of curriculum with good universities. 7) implementation of CBCS 8) Flexibility of choosing courses and specializations. 9) Multidisciplinary elective courses. 10) Introduction of General Proficiency 11) MOOC courses. 12) Project based courses 13) Industry projects. 14) Courses on Problem Solving , creative writing , entrepreneurship introduced 15) Foreign Language course compulsory in all programs to give global perspective to students 16) Virtual Labs , QEEE Spoken Tutorial programs from IITs also integrated 17) First year made common in BTech programs 18) Induction program introduced for all new joining students with focus on making them comfortable at NCU and disseminating various information about University 19) Integrated out of class room learning like tinkering lab , incubation centre , professional society work with Curriculum</p>
Teaching and Learning	<p>NCU has introduced several innovations in its teaching learning process to make it more practical with employability focus. Some of these are: a) Context learning where classroom teaching is related to real life world and has some of these following components: Covering some relevant part of syllabus in a course by Industry expert, video demonstrations, industry visits to see demonstration of concepts, mini projects, guest lectures etc. b) LMS system for 100 per-cent courses and other ICT tools to afford self-paced learning for students. c) Thousands of e-books, e-journals with wi-fi campus for easy access to information resources like video lectures through Swayam, NPTEL , Swayam Prabha, E-Pathshala Coursera etc d) Plagiarism check for all thesis work, project reports and research publications. e) Recognizing and encouraging out of class room learning. f) Mini-projects, case study, Surveys integrated with classroom teaching and so on. g) High emphasis on industry connect through multiple internships for students. h) Industry live projects for students. i) Improvement of weak students through counselling and remedial classes and so on.</p>
Library, ICT and Physical Infrastructure / Instrumentation	<p>All modern facilities (including Physical facilities, Library resources and ICT facilities) required for effective teaching - learning process at the university are more than adequate and are up-to-date they exceed the minimum specified requirements by the various statutory bodies. For this, the NorthCap university regularly accesses its teaching related facilities and ensures that they are upgraded in a timely manner. The Academic Sub-committee, the Infrastructure Sub-committee, the IT sub-committee and the Library Sub-committee of the university, which meet every month, work together to ensures that all teaching learning facilities of the university modernized and updated regularly. Some of the major facilities which are being used for effective teaching - learning are furnished below: 1) Complete campus is Wi-fi and LAN enables with 24 X 7 power backup. 2) 72 classrooms and tutorial rooms, 71 labs and 25 workshops. 3) A 430 seat state-of-the-art auditorium with a well-equipped green room for participants. 4) Seminar hall of seating capacity of 110. 5) Three conference/meeting</p>

rooms. 6) 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 white boards for teaching. 7) Classrooms and tutorial rooms are well designed for sound cancellation and proper acoustics while teaching. 8) The open-air amphitheatre which is used extensively for various university functions, clubs and professional society activities for holistic development of students. 9) Individual enclosed rooms for faculty members for discussion with students and for one-on-one classes/tutoring. 10) Enterprise Resource Planning System (ERP) based on Cloud computing. 11) The Learning Management System (LMS) provides students with online access to the course content. 12) MOOT court in Schools of Law for developing skills of advocacy. 13) Central Research Facility having several research facilities to be used by students and faculty members. 14) High performance computation lab. 15) Labs like Daikin Centre of Excellence, Mitsubishi lab, Beijing Wave lab., etc which have been setup in collaboration with industry and government agencies. 16) MOUs with many industries for live experience in industry. 17) MOUs with international universities for student exchange programmes. 18) State of the art laboratories are made available for all the programs. 19) The Library and Information Resource Centre (LIRC) has rich collection of books, journals, e-books, e-journals and other online resources. 20) Well-stacked library functioning from 08.00 am to 10.00 PM. 21) Department Library in all the schools and departments, for immediate reference by their staff, students, and scholars. 22) Biometric attendance for faculty and students in every classroom.

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

E-governance area	Details
Student Admission and Support	1) Admission: Completely online and transparent and based on the minimum eligibility conditions and selection criteria. 2) Online feedback system every semester for students. 3) Biometric attendance for students in every classroom. 4) Enterprise Resource Planning System (ERP) based on Cloud computing. 5) The Library and Information Resource Centre (LIRC) has rich collection of e-books, e-journals and other online resources. 6) The Learning Management System (LMS) provides students with online access to the course content.
Examination	1) 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. 2) ERP integration in the examination procedures and processes.
Planning and Development	1) Online feedback system every semester. 3) 3-D modeling of the university. 4) 24 hour monitoring of all institutional facilities using high profile CCD camera and related systems.
Administration	1) Biometric attendance for faculty and students in every classroom. 2) Online attendance record for faculty and staff. 3) Online fee deposition and receipt generation for students. 4) Enterprise Resource Planning System (ERP) based on Cloud computing. 5) 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 6) Portal for monthly salary slips. 7) Important notices and events on university portal. 8) The Learning Management System (LMS) provides students with online access to the course content.
Finance and Accounts	1) Online fee deposition and receipt generation for students. 2) Portal for monthly salary slips. 3) Third party software for helping in e-governance, financial management, internal and external audit.

6.3 - Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Dr. Priyanka Banerji	Design thinking, workshop	School of design thinking	Nil
2018	Mr. Praveen Singh, Dr. Satnam Singh	INTERNATIONAL WORKSHOP on NANO/MICRO 2D-3D FABRICATION, MANUFACTURING of ELECTRONIC - BIOMEDICAL DEVICES APPLICATIONS (IWNEBD-2018)	Nil	8000
2018	Ms. Megha Kalra	14th International Conference on Concrete Engineering and Technology 2018 (CONCET2018) 8-9th August 2018, Kula lumpur, Malaysia	Nil	Nil
2018	Mr. Pankaj Rakheja	Ramsa 2019 (Scopus indexed) JP Noida	Nil	8000
2018	Dr. Mehak Khurana, Dr. Prachie	Luceidus Certified Professional Program	The North Cap University	118000
2018	Dr. Rita Chitkara Dr. Geetika Munjal Ms. Neeti Kashyap Ms. Jyotika Pruthi Mr. Sandeep Singh Ms. Hitesh Yadav Ms. Shakshi Sharma (Example names are mentioned here, there were total 25 faculty members)	Workshop on Design Thinking	The North Cap University	610000
2018	Dr. Kavita Khanna, Dr. Jyoti Sahni, Ms. Prerna Singhal, Ms. Kanika Gupta	Workshop on Design Thinking	The North Cap University	130000
2018	Vijendra Singh	Workshop On Big Data and AI at Providence University, Taiwan	The North Cap University	25000
Nil	Dr. Rekha Vig	Attending conference ISTC (IBM	Nil	10000

**Solutions Technical
Conference)-2017, Bangalore**

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	workshop on "MATLAB"	Nil	16/10/2018	16/10/2018	15	Nil
2018	FDP FACULTY DEVELOPMENT PROGRAM (APS2019F001): Why Research in Academia?	Nil	06/06/2019	06/07/2019	20	Nil
2018	PDP on Project Based Learning-GIT SCRUM	Nil	07/12/2018	08/12/2018	26	Nil
2018	PDP on core Java application development	Nil	17/12/2018	18/12/2018	26	Nil
2018	PDP on web application development	Nil	19/12/2018	21/12/2018	12	Nil
2018	FDP on Data science-An experiential approach (Part 1)	Nil	19/12/2018	24/12/2018	10	Nil
2019	Smart and Sustainable Building Materials	Smart and Sustainable Building Materials	30/06/2019	07/07/2019	5	15

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Training Programme on Laboratory Quality Management System Internal Audit as per ISO/IEC 17025-2017	1	28/01/2019	31/01/2019	4
FDP on Mapping by Total Station	1	26/11/2018	30/11/2018	5
Short Term Course on 4G5G through ICT	1	17/09/2018	21/09/2018	5
AICTE/ISTE Sponsored FDP on Mobile Application Development	1	09/07/2018	14/07/2018	6
5 days Workshop/FDP on FA products-Mitsubishi	1	09/07/2018	13/07/2018	5

PDP_Post Graduate Certificate in Data Engineering	1	01/03/2018	19/07/2019	505
FDP ON WEB DEVELOPMENT MEAN STACK	1	25/02/2019	30/03/2019	34
Instruction School for Teachers (IST) on Partial Differential equations: From Theory to Computation	1	03/06/2019	15/06/2019	13
Why Research in Academia? (FDP)	11	06/06/2019	07/12/2019	2
Workshop for Women in Science Administration and Management, 2018 in NCBS, Bangaluru and it was was organized by British Council, IISER Pune and India Bioscience through the Newton-Bhabha Fund.	1	26/11/2018	29/11/2018	4

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
89	38	99	8

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • Faculty development programs at dept. and university level. • Mentoring scheme • Holistic, participative and multilevel 360 degree annual appraisal process. feedback from all stakeholders (students, admin, peers, hod, central committee), high achiever awards • VC Innovation Fund • Individual cabins • Flexible timings for faculty, freedom of house ,part time facility, sabbatical leave, special casual leave for outreach activities. 	Certificate of equivalence scheme for technical staff for qualification upgradation.	Scholarships and fee concessions, GATE Teaching Assistantship for M.Tech, Research Fellowship Award, Subsidized bus facility, Society fees reimbursement for eligible students.

6.4 - Financial Management and Resource Mobilization

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

The university has the budgetary control system to monitor the effective and efficient use of financial resources. The internal audit of the University is conducted by M/s SRY Associates and the statutory auditors is M/s S Raman and Ayer and co. The aim of the internal and external audit of the University is to provide assurance on the key areas of finance it also covers all major systems and procedures of compliance like the Income Tax as well as following of UGC norms for quality of education. The scope of the audit includes assessment of the following:-

- Adequacy of accounting, financial and other controls.
- Whether all income due to the University is identified, collected, receipted, recorded and banked promptly. . Whether 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 UGC are according to their directions and recommendations.
- Whether assets and other interests of the University are properly safeguarded.
- Whether the use of resources achieves value for money. The internal and external financial audits of the University are

conducted regularly and their reports are discussed in the Finance Committee meetings. All recommendations and suggestions on the University financial controls are taken seriously and implemented on urgent basis.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Nil	Nil	Nil

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6.4.3 - Total corpus fund generated

14061580

6.5 - Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	MHRD - participation in NIRF and Ministry of Education (MoE) - Participation in ARIIA	Yes	Academic Council Committee and Board of Studies
Administrative	Yes	Financial audit by M/s S Raman and Ayer and co.	Yes	Financial audit by M/s SRY Associates

6.5.2 - What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

NA

6.5.3 - Activities and support from the Parent - Teacher Association (at least three)

The University has a transparent mechanism of interacting with Parents. Parents can meet any of our Faculty members, Heads of the Departments, Dean(s), Director(s) and even the Vice Chancellor at any given time for any of their concerns. • Weak students are identified by faculty and monitored for progress regularly. Parents are informed in case progress is not satisfactory. • Visits by parents and parents' interaction with HODs help getting the feedback for improvement. • Interaction with parents for Anti-Ragging. • Attendance deficiency is informed to students and parents as well.

6.5.4 - Development programmes for support staff (at least three)

• Fire Fighting Training. • First aid training. • Yoga.

6.5.5 - Post Accreditation initiative(s) (mention at least three)

• Renew of Curriculum. • Reduction in programme credits of all Engg. Courses. • Student Counselling by faculty members.

6.5.6 - Internal Quality Assurance System Details

a) Submission of Data for AISHE portal

Yes

b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	No

6.5.7 - Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Inclusion of project based learning in the curriculum	12/10/2018	12/10/2018	31/12/2019	25
2018	More MoUs with industry	12/10/2018	12/10/2018	31/12/2019	8
2018	Introduction of Innovative courses and upskilling of faculty members	12/10/2018	12/10/2018	30/06/2019	37
2018	Liberal studies would be an integral part of the curriculum	12/10/2018	12/10/2018	31/12/2019	15
2018	Developing Perantal information system	12/10/2018	12/10/2018	31/12/2019	5
2018	Creation of Makers Space	12/10/2018	12/10/2018	31/12/2019	8
2018	Development of E-portfolio of students	12/10/2018	12/10/2018	31/12/2019	5
2018	Efforts to uplift slow learners	12/10/2018	12/10/2018	31/12/2019	300

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CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 - Institutional Values and Social Responsibilities**

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Living in the Shadows: For Acid Attack Victims	07/03/2019	08/03/2019	250	150
International Women's Week: workshop with the topic 'Gender Sensitization and Progress towards Gender Equality'	07/03/2019	08/03/2019	250	150
Workshop on "Know Your Rights"	18/03/2019	18/03/2019	56	92
Celebration of International Women's Day	08/03/2019	08/03/2019	24	58

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

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

10 Percent

7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	Yes	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	No	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil
Special skill development for differently abled students	No	Nil

7.1.4 - Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	2	2	11/04/2019	1	Niine Movement	Women Hygine	60
2019	1	1	28/04/2019	1	Mini-marathon at leisure valley park	To sensitize Gurgaon residents about their voting rights and duties.	120

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7.1.5 - Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Ethics Policy	02/01/2018	The NorthCap University is committed to the highest ethical and professional standards of conduct in pursuit of its mission to provide rigorous high quality education in India to meet national needs and international standards. Accomplishing this mission demands integrity, good judgment and commitment to the University's growth from all members of The NorthCap University. While The NorthCap University affirms each person's accountability for individual actions, it also recognizes that they share a set of core values and ethical conduct. The University acknowledges that an organizational culture, grounded in trust is essential to support these core values and ethical conduct.

7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Health Camp- 'Disease free Fraternity'	26/07/2018	26/07/2018	100

NCU Rotaract Club- visit 'Ayurda', old age home for homeless and abandoned senior citizens, a heart touching initiative by the Earth Saviours Foundation, Bhandwari village, Gurugram	27/08/2018	27/08/2018	20
Road Safety Week in association with DLSA	01/08/2018	07/08/2018	100
Independence Day Celebration	15/08/2018	15/08/2018	80
Oral Health Camp in association with Clove Dental Clinic	23/08/2018	23/08/2018	100
NSS- Cleanliness Drive	01/10/2018	01/10/2018	80
Three Days Yoga Workshop	03/10/2018	05/10/2018	11
Yukti Visit- Tau Devi Lal Old Age Home, Sector-4, Gurugram	15/10/2018	15/10/2018	20
NCU Rotaract Club - Diwali Drive Joy of Giving	06/11/2018	06/11/2018	20
Republic Day Celebrations	26/01/2019	26/01/2019	60

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7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)

(a) Installation of 150 KW rooftop solar PV system with net metering facility - possibly the first and only university to install it. (b) LED lighting, false ceilings to reduce heat load, as well as abundant natural light makes the building energy efficient. (c) Rainwater harvesting system with pipes going to 300 feet below ground level. (d) 100 KLD sewage treatment plant to ensure zero discharge to municipal sewer line with plans to use treated water for horticulture. (e) Garbage handed over to MCG for proper disposal. (f) The university regularly conducts tree plantation and water conservation drives.

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

1. "CLEAN CAMPUS GREEN CAMPUS" :- NCU is an environmental friendly institution. The university campus located in a clean and pollution-free environment is spread over 10 acres. NCU is committed to the green movement and has 6 acres (60 percent) of green area. The University invests all efforts to maintain beautiful lush green gardens all around the campus and for this university has been declared the winner of HUDA garden competition in Gurugram for the 16th consecutive year. Swachhta Rankings 2018:- The NorthCap University, Gurugram has been ranked Second amongst the Cleanest Higher Educational Institutions in the Country in the University (Non Residential) Category. 6200 institutions of Higher Education across the country participated in the Rankings out of which 51 institutions were given the award. The award was presented to the University by the Hon'ble MHRD, Minister Mr Prakash Javadekar in a Ceremony held at New Delhi. Continuing with our legacy of maintaining a high standard of cleanness in our campus, this award has been given for maintaining, promoting and encouraging THE CULTURE OF "SWACHHTA", in Higher Education Institutions in the Country. Campus-wide initiatives at reducing, reusing and recycling are helping it achieve a green code of living which includes:

- Use of renewable energy: Based on green audit, installation of 150 KW rooftop solar PV system with net metering facility - possibly the first and only university to install it.
- Energy Conservation: LED lighting, false ceilings to reduce heat load, as well as abundant natural light makes the building energy efficient.
- Water harvesting: Rain water harvesting system with pipes going to 300 feet below ground level.
- Sewage management: 100 KLD sewage treatment plant to ensure zero discharge to municipal sewer line with

plans to use treated water for horticulture. Garbage handed over to MCG for proper disposal. No hazardous waste produced on campus. • Efforts for Carbon neutrality: Green footprint through 6 acres of green area out of 10 acre campus area. • Plantations: Lush green gardens all around the campus. • Odd-even scheme for vehicles: Ongoing scheme for reducing emissions thereby reducing air pollution. • 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. The university understands its responsibility for providing barrier free environment for differently-abled, hence has made all provisions including ramps/lifts, Disabled-friendly washrooms, human assistance etc for them. NCU celebrated the World Environment Day on 5 June 2019. It brought together the staff and faculty members to a pledge towards growing more, and taking a step towards reducing pollution. Everyone contributed by planting saplings as a mark towards a new beginning. The university gives very special attention to its cleanliness and hygiene leaves no stones unturned in providing conducive environment for all its stakeholders. 2. PROMOTING THE VALUE OF COMMUNITY SERVICES AMONGST STUDENTS:- The NorthCap University encourages and empowers students to become confident leaders of tomorrow, and continuously strives to create well-balanced personalities, ready to face challenges. The students are encouraged to engage in extension activities through participation in community service-related activities and for this University has many Clubs and Societies where the students are members of it and perform various activities under it. Several community schemes floated by Government of India and Government of Haryana like Pradhan Mantri Ujjwala Yojana, Ujwal Bharat, National Solar Mission, Indias Energy Storage Mission, Swachh Bharat Abhiyan, Jal Shakti Abhiyan, etc. are being treated as co-curricular activities which would help in understanding Bharat before serving India. The University has a total of many clubs and societies that have chapters of National/International Professional Societies like- Legal Aid Society, Yukti, NSS-NCU, ROTARACT-NCU, Enactus etc. The objectives of these clubs and societies are as follows: • 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 • Enactus NCU (NCU chapter of Enactus International)-undertakes projects to serve the community. A student chapter of the Enactus Society. It is an international non-profit organization that connect students, academics and business leaders through entrepreneurial-based projects that empower people to transform opportunities into real, sustainable progress for themselves and their community. Currently it is involved in a waste management project, in creating livelihood for Potters and in a conservation based project. • 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. Awareness among the literates and illiterates is the focal point as it is important to create legal awareness to have a progressive society, hence legal literacy is very actively taken up by the members of this society. • Rotaract NCU (NCU chapter of Rotaract International) conducts blood donation camps, water scarcity awareness campaigns, health awareness camps, literacy programmes, food distribution drive during, etc. From the students' perspective, such an initiative enhances their social outreach and makes an impact in the society. Besides, emphasizing on the respect for the rights of others, it also helps them in enhancing their knowledge and skills which would be helpful in personal development, addressing the physical and social needs of their communities, and promoting better relations between all people worldwide through a framework of friendship and service • 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. SOME GLIMPSES OF THE ACTIVITIES • The NCU Chapter of National Service Scheme (NSS) organized an Education Drive in three Government Schools of Gurugram namely, Government Senior Secondary School Sarhaul, Government Senior Secondary School Dundaheera and Government Middle School, Sector 14 on 11 April 2019 in which 78 NSS Volunteers participated under the supervision of 9 core members. • ROTARACT : The club completed its first phase of an ongoing project Share a book, Share a smile on 25 April 2019. The project was based on a collection drive aiming at collecting books from different parts of the city and setting up a library in low income schools. A total of 350 books were collected and given to schools library. • The District Administration, Gurugram and the School of Management, The NorthCap University jointly organized a mini marathon at Leisure Valley Park to sensitize Gurgaon residents about their voting rights and duties. • The members of The Rotaract Club of The NorthCap University came forward to help daily wagers, street vendors, construction workers, and laborers, who were terribly affected by the economic and social repercussions. We hope that no family sleeps hungry at this time of pandemic.

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

<https://www.ncuindia.edu/ncuupload/BEST%20PRACTISE.pdf>

7.3 - Institutional Distinctiveness

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

The Vice Chancellor Innovation Fund Scheme:- For the past few years, a new trend has been observed within Indian Universities where a lot of effort is going on to promote research, innovation and start-ups. The NorthCap University has always been a step ahead in promoting the innovation and research culture in the University apart from teaching learning as it is the need of the hour. To encourage, support and nurture innovative ideas research and projects The NorthCap University has instituted the Vice-Chancellor's Innovation Fund (VCIF) Scheme. The scheme aims to build innovation culture in the university and focuses on enhancing the research, innovation and start-ups ideas amongst research workers, faculty members and students. A fund of ₹ 10 million is allocated for the innovation and start-up activities by the University. Further, to support research, The Master Jaggannath Centre of Excellence Incubation (MJCEI) at The NorthCap University is established. The funding from VC Innovation Fund acts as an initial grant to nurture ideas, innovations and to convert them into successful startups. The research initiatives funded through the VCIF should be preferably suitable for commercialization of the resulting innovation for societal projects. The use of the VCIF fund is to shape meaningful research that can potentially attract funding from the 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. The quantum of financial grant during each academic year under the VCIF scheme is up to Rs 15 lacs per department for projects led by the faculty and Rs 2 lacs per project for student projects. THE NORTHCAP UNIVERSITYS students/faculty are encouraged to submit projects for funding under this innovative funding scheme. The projects can be submitted throughout the year by sending entries at: VCFUNDS@NCUINDIA.EDU. Some of the visible outputs of the VCIF sponsored projects are mentioned below: • Filing of Patents from VCIF scheme funded projects. • Research paper publications in various Scopus/SCI journals. • Initial funding from VCIF and results obtained helped students/faculties to apply for funding under various government schemes. • Placements of students on the basis of project work carried under VCIF. • Won inter-university project competitions. Some of the example projects funded under the VCIF scheme are listed below: 1. Smart Car Management System. 2. Fabrication of low-cost 3D printer 3. Remote monitoring and

protection of UPS locations across The NorthCap University campus. 4. Design and fabrication of a hybrid rocket engine. 5. Power generation through moving vehicles on road.

Provide the weblink of the institution

<https://www.ncuindia.edu/vice-chancellors-innovation-fund-scheme/>

8.Future Plans of Actions for Next Academic Year

1) Linking Student Projects with incubation activities:- A successful project incubated at incubation center can be considered for awarding credits to students as a major project. In this regard, after due audit/evaluation from department we can consider giving final year major project credits to student(s) who successfully create a product and incubate the same through incubation center with the support of vendors/industry. The student(s) can be from any year, not necessarily from final year. A SOP for the same needs to be prepared for presentation in Academic Council meeting. 2) Integration of GP with Curriculum:- Though we have credits associated with GP in the present curriculum, in order for it to be taken more seriously by the students, its integration into the curriculum need to be improve further. 3) Issues faced by first year students:- During recent induction programme and later there were some issues/difficulties which have been highlighted for first year students. 4) Feedback from stakeholders:- Although we take feedback from following stake holders, a structured procedure for collecting, analysing and taking action should be developed and uploaded on the website. Online student satisfaction survey regarding teaching learning process, similar to that of NAAC can be a part of this feedback. a) Students b) Teachers c) Employers d) Alumni e) Parents 5) Future expansion of liberal education modules:- Liberal education is an important part of development for our students into better human beings and responsible citizens. It therefore becomes imperative that liberal education modules should be expanded and also included in the curriculum of our UG students. In this regard, it should also be seen how we can improve our BSc courses through modules of liberal education. 6) SOP for financial assistance to faculty members for conferences, workshops etc:- (a) Although the above SOP exists, very few faculty members take advantage of it. The SOP for the same should be discussed for improving faculty participation. (b) Also, no such SOP exists for students, which may also be prepared and discussed.