Yearly Status Report - 2019-2020

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/2021/01/Final-AQAR-18-19.pdf
4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.ncuindia.edu/ncuupload/Detailed-Academic-Calendars-Odd-Semester-2019.pdf

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
Linking Student Projects with incubation	**09-Sep-2019 290**	**22**

activities		
Integration of GP with Curriculum	09-Sep-2019 291	22
Improving the activities of Coding at NCU Club	09-Sep-2019 295	5
Improvement in induction programe for incoming students	09-Sep-2019 7	8
Future expansion of liberal education modules	09-Sep-2019 295	15
SOP for financial assistance to faculty members for conferences, workshops etc	09-Sep-2019 295	4
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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. Anjali Garg	DST WoSA	DST	2019 1095	31.88
Dr Kavita Khanna (PI)/Dr Rita Chhikara (CoPI)/Dr Rakesh Kumar Dua (Max Hospital Shalimar Bagh) (CoPI)	DST- CSRI	DST	2018 1095	19.59
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	[View File](#)
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	No

the funding agency to support its activities during the year?	

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

1. Linking Student Projects with incubation activities. This policy has been implemented and guidelines have been circulated. 2. Integration of GP with Curriculum. This activity has been completed and the final GP form associated with it has been circulated. 3.Improving the effectiveness of 'Coding Club' at NCU. The club has been extended to other departments. Twelve events have been organised since Nov. 2019. 4.Improving SOP for financial assistance to faculty members for conferences, workshops etc. The task has been completed and SOP has been circulated. 5. Feedback from stakeholders: a) Students b) Teachers c) Employers d) Alumni. Process has been improved and feedback loop has been properly closed.

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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
Update the policy for promotion of research	Facilitating research.
Increase participation in extension and extra-curricular activities	Holistic development of students.
SOP for financial assistance to faculty members for conferences, workshops etc	Facilitating research and teaching skills of faculty members
Registration of Alumni Association and Alumni contribution	Improved institute alumni engagement
Future expansion of liberal education modules	Introduction of liberal studies programmes, content and courses
Feedback from stakeholders	Improved teaching learning effectiveness
Improve the effectiveness of 'Coding Club' at NCU	Improving the coding skills of students for better employability.
Integration of GP with Curriculum	Active involvement and holistic development of students
Linking Student Projects with incubation activities	Start ups culture in the university has been improved.
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14. Whether AQAR was placed before statutory body ?	Yes

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	2020
Date of Submission	20-Mar-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton 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) Facility for online teaching and examination. 6) Enterprise Resource Planning System (ERP) based on Cloud computing. 7) The Library and Information Resource Centre (LIRC) has rich collection of ebooks, ejournals and other online resources. 8) The Learning Management System (LMS) provides students with online access to the course content. 9) Online Parental Information System for providing timely information to parents regarding their ward's academic development. 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) Online Examinations: University has well established IT tools for conducting the online AI based proctored examinations. 3) Online VivaVoce Examination: Provision has been made to conduct online vivavoce examinations through

video conferencing. 4) ERP integration in the examination procedures and processes. Planning and Development: 1) Online feedback system every semester. 2) Online institutional meetings. 3) 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 egovernance, 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.	14/02/2020
BSc	MA1	Hons. Mathematics	17/10/2019
BSc	PH1	Hons.Physics	17/10/2019
BTech	ME1	Mechanical Engineeing	13/02/2020
BTech	CE1	Civil & Environmental Engg.	14/02/2020

Mtech	CE	Civil & Environmental Engg.	14/02/2020
BTech	EC1	Electronics & Communication Engg	14/02/2020
Mtech	EC5	Electronics & Communication Engg	15/07/2019
MBA	SM5	MBA	28/02/2020
BA	SM4	Economics Hons.	28/02/2020
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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.	Nill	Web Development Technologies CSL223	02/01/2019
BTech	Computer Science Engg.	Nill	Programming for Data Science CSL225	02/01/2019
BTech	Computer Science Engg.	Nill	Applied Computational Statistics CSL227	02/01/2019
BTech	Computer Science Engg.	Nill	Business Intelligence and Data Visualization CSL232	02/01/2019
BTech	Computer Science Engg.	Nill	Data Engineering CSL234	02/01/2019
BTech	Computer Science Engg.	Nill	Game Design & Asset Creation CSL243	02/01/2019
BTech	Computer Science Engg.	Nill	Advanced Programming for Games CSL244	02/01/2019
BTech	Computer Science Engg.	Nill	Programing for Games CSL245	02/01/2019
BTech	Computer Science Engg.	Nill	Cross Platform Game Development CSL246	02/01/2019
BTech	Computer Science Engg.	Nill	Web Frameworks CSL253	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	Mechanical Engineering	13/02/2020
BTech	Mechanical Engineering	13/02/2020
BTech	Mechanical Engineering	13/02/2020
BTech	Computer Science Engineering	14/02/2020
BTech	Computer Science Engineering	14/02/2020
BTech	Computer Science Engineering	14/02/2020
BTech	Computer Science Engineering	14/02/2020
BTech	Computer Science Engineering	14/02/2020
BTech	Computer Science Engineering	14/02/2020
BTech	Computer Science Engineering	14/02/2020
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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
BSc	(Honors) Chemistry	17/10/2019

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
HVPE	22/07/2019	27
GP1	22/07/2019	27
Eff Comm. II	22/07/2019	27
GP3	22/07/2019	28
Tech-VA III (DSD Project based)	22/07/2019	33
Gen.Prof	22/07/2019	33
Creative Writing	22/07/2019	33
SSD III	22/07/2019	76
GP2	06/01/2020	27
Problem Solving and design thinking	06/01/2020	27
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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 Engineering	411
Mtech	Computer Science Engineering	3
BTech	Computer Science Engineering	38
MSc	Mathematics	13
BSc	Physics Hons	6
BSc	Physics Hons	18
BTech	Mechanical Engineering	74
BTech	Mechanical Engineering	34
BTech	Civil & Environmental Engineering	29
BTech	Civil & Environmental Engineering	5
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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

1) 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 departments 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, 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. 2) Faculty Feedback :- In Annual Faculty Appraisal form, faculty is asked for their suggestions and 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. 3) Employer Feedback:- 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. 4) Alumni :- Each department maintains a dedicated Alumni committee coordinator 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. 5) Parent 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. There is also an online Parental Information System where parents can access the progress of their wards.

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
Mtech	Civil & Environmental Engg.	18	8	8
Mtech	Electronics & Communication Engg	18	2	2
Mtech	Computer Science Engg.	18	11	7
BTech	Computer Science Engg.,Mechanical Engg.,Electronics & Communication Engg,Civil & Environmental Engg.	420	3169	447
Mtech	Mechanical Engg	18	2	1
BSc	Maths Hons.	30	246	18
BSc	Physics Hons.	20	184	14

MSc	Maths Hons.	20	30	11
BA	Economics Hons.	60	279	25
BA	Physiology Hons.	60	21	21
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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
2019	2697	124	108	7	115

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
137	137	9	72	3	10
[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 at-least 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 issues 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 a faculty member . The 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 these scheduled meetings, mentees keep meeting their mentors individually whenever they need some guidance. The mentors also initiate their students into preparing their e-portfolios which can be subsequently used for suitable placements of students. The e-portfolios also record the special areas of interest of each student which are picked up by mentors for facilitating them in achieving their goals. Additionally students are assigned Alumini mentors from industry. 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
2821	115	1:24

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
143	137	6	6	76

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
2020	Dr. Hukum Singh	Associate Professor	Appointed Judge for National level Science exhibition by CBSE New Delhi.

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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
BSc	MA1	Even/2019-20	12/06/2020	20/06/2020
LLM	ML1	Even/2019-20	12/06/2020	20/06/2020
BSc	MA1	Even/2019-20	12/06/2020	20/06/2020
Mtech	CS,EC,ME,CE	Even/2019-20	12/06/2020	20/06/2020
BTech	CS,EC,ME,CE	Even/2019-20	12/06/2020	20/06/2020
BCom	SM1	Even/2019-20	12/06/2020	20/06/2020
MBA	SM5	Even/2019-20	12/06/2020	20/06/2020
BBA	SM1	Even/2019-20	12/06/2020	20/06/2020
MSc	MA5	Even/2019-20	12/06/2020	20/06/2020
LLB	BL1	Even/2019-20	12/06/2020	20/06/2020

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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
40	2849	1.40

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	Programme	Programme	Number of	Number of	Pass Percentage

Code	Name	Specialization	students appeared in the final year examination	students passed in final year examination	
MA5	MSc	Maths	13	13	100
BL1	LLB	Hons.	74	70	94.59
SM1	BCom	Hons.	18	18	100
SM1	BBA	BBA	140	132	94.29
MA1	BSc	Physics Hons.	10	10	100
MA1	BSc	Maths Hons.	16	15	93.75
ME	BTech	Mechanical Engineering	81	78	96.30
EC	BTech	Electronics & Communication Engg	70	67	95.71
CE	BTech	Civil & Environmental Engg.	32	32	100
CS	BTech	Computer Science Engg.	416	412	99.04
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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/ncuupload/NAAC%20Student%20Satisfaction%20Survey%20(Responses).xlsx

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
International	Dr. Tejpal Singh Chundawat	Remuneration with 125 dollar for reviewing the proposal materials by ELSEVIER | on Book entitled N-sulfonated N-Heterocycles.	10/10/2019	ELSEVIER-INC Newyork
National	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
Manju dabass	1279	NCU
Jyoti Dabass	1095	NCU
Deepika	913	NCU
Aakriti Khanna	913	NCU
Neeharika Garg	913	NCU
Rekha	548	NCU
Neetu Chhillar	546	NET-JRF
Bharti	546	NCU
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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)	3	DST-NIMAT PROJECT	0.2	0.2
Industry sponsored Projects	365	Winntus Scafolding	0.5	0.5
Industry sponsored Projects	365	Devyani Food Industry	0.49	0.49
Any Other (Specify)	1095	DST, India	31.88	14.55
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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
Cybersecurity and Penetration Testing	Computer Science Engg.	08/11/2019
Blockchain Workshop	Computer Science Engg.	09/12/2019
Machine Learning and Deep Learning	Computer Science Engg.	06/12/2019
Visualizing IoT Solutions for Smart Automation	Electrical, Electronics and Communication Engg.	19/08/2019
Ace your Interview and profile building'	Electrical, Electronics and Communication Engg.	07/08/2019
World Telecommunication	Electrical, Electronics	15/05/2020

and Information Society Day	and Communication Engg.	
Introduction to PLC	Electrical, Electronics and Communication Engg.	07/08/2019
Advanced IoT workshop phase I"	Electrical, Electronics and Communication Engg.	20/08/2019
"Hands on session on IoT- Module 1"	Electrical, Electronics and Communication Engg.	17/07/2019
Hands on session to PLC	Electrical, Electronics and Communication Engg.	14/08/2019
Line Following Robot (LFR)	Electrical, Electronics and Communication Engg.	03/09/2019
Matlab and Its Applications	Electrical, Electronics and Communication Engg.	23/09/2019
Advanced IoT workshop phase II"	Electrical, Electronics and Communication Engg.	27/09/2019
Startup Eco system awareness session	Electrical, Electronics and Communication Engg.	22/10/2019
Alumni interaction	Civil and Environment Engg	10/02/2020
Alumni interaction	Civil and Environment Engg	23/09/2019
Workshop on RIVET Architecture	Civil and Environment Engg	27/09/2019
Industrial visit to Hidustan Prefab Ltd	Civil and Environment Engg	03/09/2019
Guest Lecture by Global Product Configuration Leader, GE Power	Civil and Environment Engg	07/08/2019
Expert Lecture Vehicle Development Testing	Mechanical Engg.	13/09/2019
Contexual learning lecture on Six-Sigma framework and strategies	Mechanical Engg.	03/10/2019
Six Sigma Yellow belt Certification program	Mechanical Engg.	04/11/2019
Alumni Interactive session on Project based learning-An SAE inititative	Mechanical Engg.	06/02/2020
Entrepreneurial opportunities in Financial Sector	School of Management and Liberal Studies	15/11/2019
Encouraging Budding Entrepreneurs- Exhibiting Innovative Ideas	School of Management and Liberal Studies	18/11/2019
RESEARCH METHODOLOGY WORKSHOP	School of Management and Liberal Studies	18/12/2019

Seminar on Cyber Security Challenges and preventive measures to protect our self from data breach in this tech-savvy generation	School of Law	03/09/2019	
Workshop on "IPR-Basic Information and Patents-Initial steps for filing a patent application"	Applied Sciences	24/09/2019	
Interaction of APS students with SPA	Applied Sciences	02/08/2019	
FDP on java	Computer Science Engg.	09/12/2019	
FDP on Penetration Testing	Computer Science Engg.	17/12/2019	
FDP on Graphic Design	Computer Science Engg.	11/12/2019	
FDP on Data Engineering	Computer Science Engg.	11/11/2019	
FDP on Digital Forensics	Computer Science Engg.	10/12/2019	
Cyber Security Essentials	Computer Science Engg.	09/09/2019	
Cloud technology skills	Computer Science Engg.	03/08/2019	

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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
Appreciation certificate for National Standard Examination	Dr. Hukum Singh	Indian Association of Physics Teachers	05/01/2020	Teacher
Reviewer	Dr Tejpal Singh Chundawat	Elsevier Reviewer	21/08/2019	Teacher
KPMG Business Ethics Grant	Dr Anshu	KPMG Enactus	16/10/2019	Teacher
Judge	Dr Hukum Singh	CBSE National Science Exhibition	31/12/2019	Teacher
Publicity Team Member,IEEE CS Compute Award	Virender Pratap Singh	CS Annual Congress	11/10/2019	Student
Registration Team Lead Award	Virender Pratap Singh	IEEE Computer Society	13/10/2019	Student
Student Project Programme	Arnav Oberoi	Institute of scholars	23/09/2019	Student
Young Achiever Award	Arnav Oberoi	Institute of Scholars, Bangalore	23/09/2019	Student

| Automatic universal LPG stove controller for boiling of liquids | Mr Ritik Bhatia (2nd Year) | BML Munjal University, Gurugram | 14/02/2020 | Student |
| VC Innovation fund: Automatic domestic gas stove controller for boiling liquids | Dr. Satnam Singh ritik Bhatia | The NorthCap University | 14/02/2020 | Student/teacher |

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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	Robust Infotech	Web Development	17/09/2019
Master Jagannath Centre for Excellence and Incubation	Master Jagannath Centre for Excellence and Incubation	Self	Fervent Infotech	Web Development	22/07/2019

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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 Sciences	2
Civil and Environment Engg	1
Computer Science Engg.	6
Electrical, Electronics and Communication Engg.	3
Mechanical Engg.	1
School of Management and Liberal Studies	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)
National	Mechanical Engg.	1	Nill
International	Mechanical Engg.	13	2.07
National	Applied Sciences	Nill	Nill
International	Applied Sciences	25	1.7

National	Civil and Environment Engg	1	Nill
International	Civil and Environment Engg	6	0.28
National	Computer Science Engg.	1	Nill
International	Computer Science Engg.	23	1.1
National	Electrical, Electronics and Communication Engg.	Nill	Nill
International	Electrical, Electronics and Communication Engg.	24	1.68
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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 Science	4
Civil and Environment Engg	2
Computer Science Engg.	9
Electrical, Electronics and Communication Engg.	7
School of Law	4
School of Management and Liberal Studies	5
[View File](#)	

3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
IPC-system: intelligent power control system of any power backup	Published	201811034645	Nill
AUTOMATIC UNIVERSAL LPG STOVE CONTROL DEVICE FOR BOILING OF LIQUIDS	Published	201911051585	Nill
IOT BASED SOIL FERTILIZATION TEST	Published	201941025185	Nill
ISPT- MOBILE BANKING: INTELLIGENT AND SECURED PAYMENT TRANSFER USING MOBILE BANKING	Published	202011015851	Nill
AUTOMATIC SANITIZED THE	Published	202011015852	Nill

ELEVATOR KEY INSIDE OUTSIDE SURFACE AND AIR			
SYSTEM AND METHOD FOR REDUCING THE ANTENNA RADIATION OF A PORTABLE ELECTRONIC DEVICE	Published	201941046257	Nill
IP-System: Intelligent Printer System to Remove Text on Paper and Reuse of Paper and Ink	Published	E25/FA/2431/201	Nill
IBA System: Intelligent biometric authentication system to transfer the amount to registered account number	Published	201821029061	Nill
Village-ATM: Multimodal biometric system for one stop banking for rural India	Published	201811034647	Nill
I-Calculator: Voice based intelligent calculator	Published	201811034644	Nill
[View File](#)			

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
Optical asymmetric watermarki ng using 4D hyperch aotic system and modified equal modulus de compositio n in hybrid multi resolution	Pankaj Rakheja, Rekha Vig and Phool Singh	Optik	2019	12	NCU	12

wavelet domain							
Optical Asymmetric Cryptosyst em Based on Kronecker Product, Hybrid Phase Mask and Optical Vortex Phase Masks in the Phase Truncated Hybrid Transform Domain	Priynaka Maan, Hukum Singh and Charan Kumari	3D Research	2019	4	NCU	4
A Spiral-Phase Rear Mounted Triple Masking for Secure Optical Image Encryption Based on Gyrator Transform	Mehak Khurana and Hukum Singh	Recent Patents on Computer Science	2019	6	NCU	6
ANT_FDCSM: A novel fuzzy rule miner derived from ant colony meta-heuristic for diagnosis of diabetic patients	Anuradha, Akansha Singh and Gaurav Gupta	Journal of Intelli gent and Fuzzy Systems	2019	4	NCU	4
A two-phase hybrid approach using feature selection and	Divya Jain and Vijendra Singh	Internat ional Journal of Computers and Applic ations	2019	6	NCU	6

Adaptive SVM for chronic disease classification							
An asymmetric hybrid cryptosystem using equal modulus and random decomposition in hybrid transform domain	Pankaj Rakheja, Rekha Vig and Phool Singh	Optical and Quantum Electronics	2019	4		NCU	4
Asymmetric hybrid encryption scheme based on modified equal modulus decomposition in hybrid multi-resolution wavelet domain	Pankaj Rakheja, Rekha Vig and Phool Singh	Journal of Modern Optics	2019	5		NCU	5
Automatic Facial Expression Recognition Using Combined Geometric Features	Garima Sharma, Latika Singh and SumanLata Gautam	3D Research	2019	3		NCU	3
Sentiment Analysis of Twitter Data- A Hybrid Approach	Ankit Srivastava, Vijendra Singh and Gurmeet Singh	International Journal of Healthcare Information Systems and Informatics	2019	5		NCU	5
Perceived Workforce Diversity	Subhash C. Kundu, Jahanvi Bansal and	Journal of Strategic Human	2019	2		NCU	2

| and Firm Performance: A Study of an Indian Public Sector Organization | Mukesh Pruthi | Resource Management | | | | |

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
Quantum Dot Modified Interface for Electrochemical Immunosensing of Procalcitonin for the Detection of Urinary Tract Infection	Aditya Sharma Ghrera	Analytica Chimica Acta	2019	192	14	NCU
Sentiment Analysis of Twitter Data- A Hybrid Approach	Ankit Srivastava, Vijendra Singh and Gurmeet Singh	International Journal of Healthcare Information Systems and Informatics	2019	12	5	NCU
Automatic Facial Expression Recognition Using Combined Geometric Features	Garima Sharma, Latika Singh and SumanLata Gautam	3D Research	2019	17	3	NCU
Asymmetric hybrid encryption scheme based on modified equal modulus decompositio	Pankaj Rakheja, Rekha Vig and Phool Singh	Journal of Modern Optics	2019	84	5	NCU

n in hybrid multi-resolution wavelet domain						
An asymmetric hybrid cryptosystem using equal modulus and random decomposition in hybrid transform domain	Pankaj Rakheja, Rekha Vig and Phool Singh	Optical and Quantum Electronics	2019	54	4	NCU
A two-phase hybrid approach using feature selection and Adaptive SVM for chronic disease classification	Divya Jain and Vijendra Singh	International Journal of Computers and Applications	2019	13	6	NCU
ANT_FDCSM: A novel fuzzy rule miner derived from ant colony meta-heuristic for diagnosis of diabetic patients	Anuradha, Akansha Singh and Gaurav Gupta	Journal of Intelligent and Fuzzy Systems	2019	52	4	NCU
A Spiral-Phase Rear Mounted Triple Masking for Secure Optical Image	Mehak Khurana and Hukum Singh	Recent Patents on Computer Science	2019	11	6	NCU

Encryption Based on Gyrator Transform							
Optical Asymmetric Cryptosystem Based on Kronecker Product, Hybrid Phase Mask and Optical Vortex Phase Masks in the Phase Truncated Hybrid Transform Domain	Priynaka Maan, Hukum Singh and Charan Kumari	3D Research	2019	17	4	NCU
Optical asymmetric watermarking using 4D hyperchaotic system and modified equal modulus decomposition in hybrid multi resolution wavelet domain	Pankaj Rakheja, Rekha Vig and Phool Singh	Optik	2019	57	12	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	1	5	Nill	2
Presented papers	17	8	Nill	Nill
Resource persons	2	2	Nill	Nill

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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.	110th All India Trde Test (AITT) practical exam for MSIL apprentice	Smart Skills, training partner of MSIL	195000
Central research Facility/Applied Sciences	Characterization of Samples	Sarita Yadav, Research Scholar, 9667714699	300
Central research Facility/Applied Sciences	Characterization of Samples	Suman , Research Scholar, Contact No.7838650072	1200
PI-Dr. Kavita Khanna, Co-PI Dr. Rita Chhikara/Computer Science	Python for Data Science Training	NTRO	250000
PI-Dr. Vijendra/Computer Science	Website Consultancy	B ACE Consultency Ltd	30000
The NorthCap University Testing Centre/Civil Engg.	Testing of Concrete Beams	ADGITM	3000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
NIL	NIL	NIL	Nill	Nill
No file uploaded.				

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
Ganesh Chaturthi Celebration	Rotract Club of NCU	1	1
Share A book Share a smile	Rotract Club of NCU	1	13
Car Rally	Rotract Club of NCU	1	11
Creative Writing Competition(Online)	NSS _NCU	2	25
QUIZ CONTEST ON LOCKDOWN (Online)	NSS _NCU	2	100
Vartalaap (Debate / Group Discussion)	NSS _NCU	2	20

(Online)			
Video Making competetion (Online)	NSS _NCU	2	15
Webinar on OUR RIGHTS DURING PANDEMIC	NSS _NCU	2	1000
Art Competition (Online)	Art Competition	2	25
Donation Drive	NSS _NCU	1	30
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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
Publicist,IEEE CS Compute Award	Appreciation	CS Annual Congress	1
Registration Team	Appreciation	IEEE Computer Society	1
CSI activity	Best Accredited Student Branch	Computer Society of India (CSI)	3
NIRF ranking survey	NIRF Rank 117	MHRD	2821
Youth Empowerment	Global Goal Action Ambassador for United Nations Sustainable Development Goals, India.	UN	1
MUN	Best Delegate Award	Jamia Milia Islamia	1
Model United Nation Conference	3rd Position (Special Mention)	IIT Delhi in Loksabha	1
Project exhibition at 67th Milestone 2020 event by BMLMunjal University	Mr Ritik Bhatia (2nd Year)participated in the Science Exhibition projects at BML Munjal University,held from14 February to16 February 2020.His project Automatic universal LPG stove controller for boiling of liquids secured the first position during	BML Munjal University, Gurugram	1
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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 activites	Number of students participated in such activites
NSS	Rotract Club of NCU	Installation ceremony - Aagaz	1	56
NSS	Rotract Club of NCU	Ganesh Chaturthi Celebration	1	1
NSS	Rotract Club of NCU	Share A book Share a smile	1	13
NSS	Rotract Club of NCU	Car Rally	1	11
NSS	NSS _NCU	Creative Writing Competition(Online)	2	25
NSS	NSS _NCU	QUIZ CONTEST ON LOCKDOWN (Online)	2	100
NSS	NSS _NCU	Vartalaap (Debate / Group Discussion) (Online)	2	20
NSS	NSS _NCU	Video Making competetion (Online)	2	15
NSS	NSS _NCU	Webinar on OUR RIGHTS DURING PANDEMIC	2	1000
NSS	NSS _NCU	Donation Drive	1	30

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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	Dr Tejpal Singh Chundawat	NA	1825
Research	Dr Tejpal Singh Chundawat	NA	730
Research	Dr Tejpal Singh Chundawat	NA	730
Research	Dr Tejpal Singh Chundawat	NA	730
Submission of Research Project at UTM and joint publication	Dr Sunita Sharma	NA	1095

Conference paper presentation and workshop	Faculty of CSE	NA		2
Workshop onData Science for Python	18	NA		5
CISCO Certification for Module-4	14	NA		183
CISCO Certification for Module-1	32	NA		183
Cyber Security Essentials	15	NA		17

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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
Project	MenteeChain Development	MenteeChain	15/04/2019	15/10/2020	Lokesh Parmar, Meenakshi Sharma, Naman Jindal, Palak Khurana
Internship	Global Supplier Cla ssification	Abbott	20/06/2019	19/07/2019	Lakshay Kapoor
Internship	Alexa Skill For Electric Meter	Radius Synergies	01/07/2019	20/10/2019	Arvind kushwaha
Internship	Summer internship	Atlus Infr astructure	02/01/2020	20/03/2020	18CVU009 Vaibhav Rana
Internship	Summer internship	Skyfi Labs	05/11/2020	06/11/2020	18CVU001 - Abhishek, 18CVU003 Hrithik Kumar, 18CVU005 Shaurya Lakra, 18CVU007 Shaurya, 18CVU008 Arun Vashishth

On the Job training	Symposium on Analytic Number Theory and its Applications in Cryptography/Computing	JIIT, NOIDA	01/09/2019	31/08/2020	Nisha Sharma
On the Job training	Symposium on Analytic Number Theory and its Applications in Cryptography/Computing	JIIT, NOIDA	01/09/2019	31/08/2020	Ayushi Bansal
On the Job training	Symposium on Analytic Number Theory and its Applications in Cryptography/Computing	JIIT, NOIDA	01/09/2019	31/08/2020	Muskan Yadav
On the Job training	Symposium on Analytic Number Theory and its Applications in Cryptography/Computing	JIIT, NOIDA	01/09/2019	31/08/2020	Simran Kaur
On the Job training	Symposium on Analytic Number Theory and its Applications in Cryptography/Computing	JIIT, NOIDA	01/09/2019	31/08/2020	Tamana Thakur

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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
UINCEPT	09/09/2019	Internship, placement, Industry Project	1

TownSqaure	29/08/2019	Internship, placement, Industry Project	2
Ecara Solutions	30/08/2019	Internship, placement, Industry Project	1
Ansyst Consulting	14/08/2019	Internship, placement, Industry Project	1
Quick Doctor In	12/08/2019	Internship, placement, Industry Project	1
AgBe	09/08/2019	Internship, placement, Industry Project	1
360 degree Cloud	12/08/2019	Internship, placement, Industry Project	3
S connection	10/10/2019	Joint project and product deveopment (with stipend) placement	5
vdoit	17/01/2020	Joint project and product deveopment (with stipend) placement	1
Doctor Insta	17/01/2020	Joint project and product deveopment (with stipend) placement	1
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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
350	321.17

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Existing

Classrooms with Wi-Fi OR LAN	Existing
Classrooms with Wi-Fi OR LAN	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

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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 (latest)	2008

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	65402	12620794	4172	133576	69574	12754370
Reference Books	4629	1676542	103	87625	4732	1764167
e-Books	14	25402	Nill	Nill	14	25402
Journals	12	66675	Nill	Nill	12	66675
e-Journals	4	568661	Nill	Nill	4	568661
Digital Database	8	4383287	Nill	Nill	8	4383287
CD & Video	1587	Nill	Nill	Nill	1587	Nill

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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 Pooja Sabherwal	RTL Design Synthesis	Universitys LMS	06/01/2020
Prof. Swaran Ahuja/Pallavi Asthana	Analog and Digital Communication	Universitys LMS	07/01/2020

Dr. Sharda Vashisth	Digital Signal Processing (ECL350)	Universitys LMS	08/01/2020
Prof. Swaran Ahuja/Pallavi Astana/Raisy C D	Fields, Waves and Antennas	Universitys LMS	14/05/2020
Ms.Amanpreet Kaur	Genetic Algorithms	Universitys LMS	08/01/2020
Ms. Kusum Dangi	Analog CMOS VLSI Design Layouts (ECL365)	Universitys LMS	20/06/2020
Dr Mona Aggarwal	Wireless mobile communication	Universitys LMS	21/06/2020
Ms.Amanpreet Kaur	Digital Electronics and Computer Architecture	Universitys LMS	08/01/2020
Ms.Amanpreet Kaur	Optimization Techniques	Universitys LMS	08/01/2020
Dr. Vandana Khanna	Embedded System Design	Universitys LMS	01/05/2020

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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	945	23	2	1	0	50	24	300	0
Added	20	0	0	0	0	0	0	0	0
Total	965	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, Online Lecture Recording	[NIL](#)

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 incurredon maintenance of physical facilites
350	559.63	650	743.23

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

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 have 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 support 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 10.0, 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 17th 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 items. 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 wheeler 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,Deans List	241	11989950
Financial Support from Other Sources			
a) National	0	Nill	0
b)International	0	Nill	0
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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 implemetation	Number of students enrolled	Agencies involved
Health checkup camp for hair and scalp	27/09/2019	75	Richfeel, Dr. Shilpy Wadhwa,Mr. jayant Singh,9958562277
Eyesight checkup Camp	07/08/2019	95	Dr Shilpi Wadhwa
Fit India Campaign	29/08/2019	450	NCU chapter of computer society of India
Science Exhibition 2019	15/10/2019	172	Various Gurgaon schools such as DAV,ITL and many more,9560916060
Breast cancer awareness Lecture	19/10/2019	40	Yes to life, Neeti Lekaha,9999302653
A visit to central pollution control board	15/11/2019	40	Dr. Bharti and Aditya, Mr. V.P. Yadav, PCB division head,8383036407
Awareness Drive on Water Conservation	28/01/2020	10	NCU (as per directives of MHRD) Phone: 0124 2365811 email: ncu@ncuindia.edu
Effective Communication - I	27/07/2019	15	NCU Phone: 0124 2365811 email: ncu@ncuindia.edu
Effective Communication - II	04/01/2020	15	NCU Phone: 0124 2365811 email: ncu@ncuindia.edu
Foreign Language Elective	27/07/2019	7	Visiting Faculty
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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	Number of benefited	Number of students who	Number of studentsp placed

		students for competitive examination	students by career counseling activities	have passedin the comp. exam	
2019	GATE self study course (CSE)	411	Nill	13	Nill
2019	Pre placement Interview(CSE)	Nill	136	Nill	Nill
2019	NCU GATE(ECE)	73	Nill	4	Nill
2019	Co-Cubes, Pre placemnet interviews, Mentoring(Batch 2016-2020)	Nill	73	Nill	34
2019	NCU GATE(ME)	67	Nill	2	Nill
2019	Interaction of APS students with SPA	Nill	50	Nill	Nill
2019	Workshop on "Techniques of Alternative Dispute Resolution and Importance of Arbitration and Mediation in developing a Career"	Nill	120	Nill	Nill
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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
4	4	1

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof	Number of	Number of	Nameof	Number of	Number of

organizations visited	students participated	stduents placed	organizations visited	students participated	stduents placed
Deloitte,Capgemini,Real Time Data Services,Fidelity International,EY Global Delivery Services,TCS,etc.	412	384	Nill	Nill	Nill

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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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	BBA	SOM	NDIM	PGDM
2019	1	BBA	SOM	IBS, MUMBAI	MBA/PGDM
2019	1	BBA	SOM	APEEJAY SCHOOL OF MANAGEMENT	PGDM
2019	1	BBA	SOM	Chandigarh University	Masters of Business Administration (MBA)
2019	1	BBA	SOM	Sushant School of Business, Sushant University (Erstwhile Ansal University), Gurgaon.	Masters of Business Administration (MBA)
2019	1	BTech	ECE	IIIT Gwalior	M.Tech
2019	1	BTech	CSE	University College Cork, Ireland	MSc (Business Information andAnalytical Systems)
2019	2	BTech	CSE	Northeastern University	Master of Science - MS, Computer Systems Engineering · (2019 – 2021)
2019	1	BTech	CSE	IILM	MBA

| 2019 | 1 | BTech | CSE | The University of ADELAIDE | Master of Machine Lerning |

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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
SLET	Nill
GATE	19
CAT	3
GRE	1
TOFEL	Nill
Civil Services	Nill
Any Other	6
NET	Nill
SET	Nill

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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
Orientation: Welcoming the batch of 2019	University Level	550
One-week Induction Programme	University Level	550
Society fest	University Level	100
Live Streaming: Fit India Campaign	University Level	150
Independence Day Celebrations	University Level	80
Teacher's Day Celebrations	University Level	50
Engineers day celebrations	University Level	150
Annual Innovation Festival	University Level	40
Design day	University Level	35
Inter-Departmental Basket Ball tournament	University Level	50

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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	National/	Number of	Number of	Student ID	Name of the

	award/medal	Internaional	awards for Sports	awards for Cultural	number	student
2019	Stood 1st in Compound round (Team Event) of 9th National Field Indoor Archery Ch amponship 2019-20	National	1	Nill	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 instructional 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 44 clubs that function at both Departmental and University level. These clubs fall under four categories- Hobby Clubs, Academic- reinforcement Clubs, Skill Development Clubs and Community Service Clubs. All co-curricular and extra-curricular activities are student-driven. Each club has a President, 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. Momentum, 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:

5000

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

260000

5.4.4 – Meetings/activities organized by Alumni Association :

Number of alumni association meetings are 8. Dates of meetings and No. of members attended :- (a) 27/7/19 and 16, (b) 24/8/19 and 25, (c) 21/09/19 and 30, (d) 1/11/19 and 28, (e) 30/01/20 and 550, (f) 18/04/20 and 26, (g) 01/05/20 and 25, (h) 14/06/20 and 28

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 skate 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 skate 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) Decentralization and 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: 1. Student Class Committee. 2. Dean's list of students. 3. Internal Quality Assurance Cell (IQAC). 4. Infrastructure Sub-committee. 5. ERP Sub-committee. 6.Academics Sub-committee. 7. Feedback (Student Redressal Mechanism) Sub-committee. 8. Library Sub-committee. 9. Admissions Sub-committee. 10. IT related issues Sub-committee. 11. Career and Placements Sub-committee. 12. Professional Societies Sub-committee. 13. Student Activities Leadership Sub-committee. 14. Alumni Connect Sub-committee. 15. Students Grievance Redressal Committee. B) Decentralization and Participative Management by Faculty Members:The NorthCap university strongly believes and practices the philosophy of participation of all its skate 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 skate 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. Academic Council Committee 2. Committee of Directors/Deans of schools and head of the departments. 3. Examination Committee. 4. Finance Committee. 5. Board of studies for each Department/Schools. 6. Internal Quality Assurance Cell. 7. Board of Doctoral Research. 8. Departmental Research Committees. 9. Institution Innovation council. 10. Grievance Redressal Committee. 11. Committee for Women Empowerment and Welfare (Internal Complaint). 12. Anti-ragging committee. 13. Disciplinary committee. 14. SC / ST Committee 15. Student Class Committee 16. Digital learning and monitoring cell 17.Infrastructure Sub-committee. 18. ERP Sub-committee. 19. Academics Sub-committee. 20. Feedback (Student Redressal Mechanism) Sub-committee. 21. Library Sub-committee. 22. Admissions Sub-committee. 23. IT related issues Sub-committee. 24. Career and Placements Sub-committee. 25. Professional Societies Sub-committee. 26. Student Activities Leadership Sub-committee. 27. Alumni Connect 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

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. 5) Establishment of International relations office. 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 (70 faculty, 29 students are females) • 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 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
Examination and Evaluation	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) Online Examinations 10) Online Viva-Voce

	Examination. 11) Vetting of question papers.
Curriculum Development	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) Extension activities are part of curriculum. 15) Courses on Problem Solving , creative writing , entrepreneurship introduced 16) Foreign Language course compulsory in all programs to give global perspective to students 17) Virtual Labs , QEEE Spoken Tutorial programs from IITs also integrated 18) First year made common in BTech programs 19) Induction program introduced for all new joining students with focus on making them comfortable at NCU and disseminating various information about University 20) Integrated out of class room learning like tinkering lab , incubation centre , professional society work with Curriculum 21) Courses in Liberal studies introduced in some programs
Teaching and Learning	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) Tinkering Lab, Incubation centre and thought lab which provide a platform to students to convert their creative ideas into working models. c) LMS system for 100 per-cent courses and other ICT tools to afford self-paced learning for students. d) 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 e) Plagiarism check for all thesis work, project reports and research publications f) Recognizing and encouraging out of class room learning. g) Mini-projects, case study, Surveys integrated with classroom teaching and so on h) Parent information system for keeping the stake holders informed about the progress of their wards and plan corrective measures. i) E-portfolio development by each student to showcase his achievements to outside. j) High emphasis on industry connect through multiple internships for students. k) Industry live projects for students. l) Improvement of weak students through counselling and remedial classes and so on.
Library, ICT and Physical Infrastructure / Instrumentation	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) 78 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 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 cancelation 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) World class seating arrangement in classrooms with step seating for better visibility to students. 11) Student – computer ratio is less than 4 : 1 and the allotment ratio in the lab is 1 : 1, additionally are students are required to carry laptops. 12) 55 system and application software, and 115 printers. 13) Enterprise Resource Planning System (ERP) based on Cloud computing. 14) Online Student Portfolio well integrated into student mentoring process. 15) Online Parental Information System for providing timely information to parents regarding their ward's academic development. 16) Facility for E-Content development by faculty members. 17) The Learning Management System (LMS) provides students with online access to the course content. 18) Facility for online teaching and examination. 19) Repository of recorded lectures by faculty members. 20) MOOT court in Schools of Law for developing skills of advocacy. 21) Central Research Facility having several research facilities to be used by students and faculty members. 22) High performance computation lab. 23) Facilities like Tinkering lab, Maker's Space and Design centre. 24) Labs like Daikin Centre of Excellence, Cisco Lab, Mitsubishi lab, Beijing Wave lab., NaVIC lab etc which have been setup in collaboration with industry and government agencies. 25) Master Jagannath Centre of Excellence and Incubation 26) MOUs with many industries for live experience in industry. 27) MOUs with international universities for student exchange programmes. 28) State of the art laboratories are made available for all the programs 29) The Library and Information Resource Centre (LIRC) has rich collection of books, journals, e-books, e-journals and other online resources. 30) Well-stacked library functioning from 08.00 am to 10.00 PM.

E-governace area	Details
	31) Freely downloadable university Library Android mobile app where users can access library resources 24x7 through their mobiles. 32) Department Library in all the schools and departments, for immediate reference by their staff, students, and scholars. 33) Biometric attendance for faculty and students in every classroom.

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

E-governace area	Details
Student Admission and 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) Facility for online teaching and examination. 6) Enterprise Resource Planning System (ERP) based on Cloud computing. 7) The Library and Information Resource Centre (LIRC) has rich collection of e-books, e-journals and other online resources. 8) The Learning Management System (LMS) provides students with online access to the course content. 9) Online Parental Information System for providing timely information to parents regarding their ward's academic development.
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) Online Examinations: University has well established IT tools for conducting the online AI-based proctored examinations. 3) Online Viva-Voce Examination: Provision has been made to conduct online viva-voce examinations through video-conferencing. 4) ERP integration in the examination procedures and processes
Planning and Development	1) Online feedback system every semester. 2) Online institutional

	meetings. 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
2019	Dr. Sharda Vashisth	Five days workshop on GNSS Technologies, Osmania University, Hyderabad	Nill	10000
2019	Dr Rekha	Short Term Training-ISRO	Nill	10000
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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)
2019	FDP on Problem Solving and Design Thinking	Nill	08/07/2019	09/07/2019	10	Nill
2019	FDP on Cyber security	Nill	09/07/2019	19/07/2019	8	Nill
2020	FDP on Statistics and Probability	Nill	01/05/2019	14/08/2019	9	Nill
2019	Penetration Testing	Nill	17/12/2019	24/12/2019	5	Nill
2019	Java	Nill	09/12/2019	12/12/2019	9	Nill
2019	Nill	Technical Staff Development Programme and Mentoring 2019 (IOT, Cadence)	17/07/2019	17/07/2019	Nill	7
2019	Nill	Technical Staff Development Programme and Mentoring 2019 (IOT, Cadence)	18/09/2019	18/09/2019	Nill	7
2019	Nill	Technical Staff Development Programme and Mentoring 2019 (IOT, Cadence)	14/11/2019	14/11/2019	Nill	7
2019	Nill	Technical Staff Deve	16/11/2019	16/11/2019	Nill	7

2019	Smart and Sustainable Building Materials	Smart and Sustainable Building Materials	01/07/2019	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
PDP_Post Graduate Certificate in Data Engineering	1	18/03/2019	17/07/2019	365
FDP_WhatsApp Outcome Based Education Faculty Development Program	1	14/03/2020	24/03/2020	21
FDP_WhatsApp Outcome Based Education Faculty Development Program	3	14/03/2020	24/03/2020	21
FDP_R Language	1	16/06/2020	22/06/2020	7
VLSI Chip Design Hands-on Using Open Source EDA	1	14/11/2019	16/11/2019	2
Introduction to Pythan-On line course from Coding Ninjas(May-June 2020	2	01/05/2020	12/06/2020	43
Introduction to C from Coding Ninjas-On line course (May2020-June2020),	1	01/05/2020	20/06/2020	51

Introduction to Power Electronics- University of Colorado (April to May 2020)	1	10/04/2020	03/05/2020	23
4-day short course on GNSS Technologies: Fundamentals Applications during 05-08, September 2019 2-Day Symposium on "Trends in GNSS Research", during 08-09, September 2019	1	05/09/2019	09/09/2019	6
VLSI Chip Design Hands on using open source EDA (8 – 12 July 2019) by MNIT Jaipur through ICT	1	08/07/2020	12/07/2020	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
82	33	100	7

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• 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 • Incubation Center, Tinkering Lab,	Certificate of equivalence scheme for technical staff for qualification upgradation	Scholarships and fee concessions, Research Fellowship Award, Subsidized bus facility, Society fees reimbursement for eligible students.

	Thought Lab		

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	0	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), and even the Vice Chancellor at any given time for any of their concerns. 1. Weak students are identified by faculty and monitored for progress regularly. Parents are informed in case progress is not satisfactory. 2. Visits by parents and parents' interaction with HODs help getting the feedback for improvement. 3. Interaction with parents for Anti-Ragging. 4. 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
2019	Linking Student Projects with incubation activities	09/09/2019	09/09/2019	28/12/2020	22
2019	Integration of GP with Curriculum	09/09/2019	09/09/2019	28/12/2020	22
2019	Improvement in activities of 'Coding Club' at NCU	09/09/2019	09/09/2019	28/12/2020	5
2019	Improvement in induction programe for incoming students	09/09/2019	30/10/2019	28/12/2020	8
2019	Feedback from stakeho lders: a) Students b) Teachers c)	09/09/2019	09/09/2019	19/12/2020	8

| 2019 | Future expansion of liberal education modules | 09/09/2019 | 09/09/2019 | 19/10/2019 | 15 |
| 2019 | SOP for financial assistance to faculty members for conferences, workshops etc | 09/09/2019 | 09/09/2019 | 28/12/2020 | 4 |

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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
International Women's Day: plantation drive in the Women's Police Station, Sector 51, Gurugram	04/03/2020	04/03/2020	15	7
Visit to "KAMALINI Vocational training centre", Alipur, Sohna, Gurugram	05/03/2020	05/03/2020	25	6
International Women's Day on the theme 'Victimization of Women in Cyber Space'	06/03/2020	06/03/2020	140	250

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	Nill

Provision for lift	Yes	Nill
Ramp/Rails	Yes	Nill
Braille Software/facilities	No	Nill
Rest Rooms	Yes	Nill
Scribes for examination	Yes	Nill
Special skill development for differently abled students	No	Nill

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	01/08/2019	1	Jal Shakti Abhiyan	Water Conservation	60
2020	1	1	28/01/2020	1	Awareness Drive on Water Conservation	Water Conservation	10
2020	Nill	1	02/01/2020	1	Expert Lecture on "Career Prospects and Ladders"	Addressed students of standard 10th and 12th and parents about the various career options available for the students	202

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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	01/01/2019	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
Eyesight check-up camp for all students	07/08/2019	07/08/2019	300
Celebration of Independence Day	15/08/2019	15/08/2019	80
Legal Aid Clinic in association with District Legal Services Authority, Gurugram conducted a survey related to governance issues at Sukhrali Enclave	07/09/2019	07/09/2019	60
Health Camp	27/09/2019	27/09/2019	70
Breast Cancer Awarness	19/10/2019	19/10/2019	150
Food Donation Drive by IEEE	16/10/2019	16/10/2019	50
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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 beautify lush green gardens all around the campus and for this university has been declared the winner of HUDA garden competition in Gurugram for the 17th 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. Again in the Swachh campus ranking 2019 the University has been ranked fifth amongst the Cleanest Higher Educational Institutions in the Country in the Category University (Non Residential) The above rankings shows that NCU is fully committed towards implementing Swachh Bharat Abhiyan, an initiative which was started by Government of India. 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 MCGfor 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 Indian Meteorological Department, Ministry of Earth Sciences, GOI, has selected NCU for setting up an Automatic Weather Station (AWS). It will provide accurate and real time data of minimum and maximum temperatures, rain measurement, humidity, wind speed and direction, pressure, solar radiation etc. This will be beneficial to the residents of Gurugram especially farmers as they will get to know about the weather conditions in advance. It will help students and faculty in research and developmental activities of atmospheric studies. 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 44 clubs and 15 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 Covid19, 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 Dundahera and Government Middle School, Sector 14 on 11 April 2019 in which 78 NSS Volunteers participated under the supervision of 9 core members. • Legal Aid Society of School of Law, The NorthCap University collaborated with Aadi Shakti Shiksha Foundation (NGO) in the food distribution drive at the time of Corono curfew in March-April 2020 in reaching out to the most vulnerable section of the society i.e. daily wagers including women and children. Students raised hope for many families and were kind enough to stand for the nation and society

to brighten the lives of all those in dire need and worked towards the objective of Legal Aid Society. • 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 Legal Aid Society of School of law started the initiative to create an awareness campaign about 'Arogya Setu' App. During this campaign, posters were made by the students to make the public aware of the benefits of installing the app, how the data provided by them is safe and secure, etc. These posters were circulated in the public domain through various social media platforms. • 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 of the coronavirus by providing all the necessary items needed at this point in time. We hope that no family sleeps hungry at this time of pandemic. AWARDS: 1. Platinum distinction was awarded to Rotaract Club of NCU for the year

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 projects funded under the VCIF scheme are listed below: 1. Navigation with Indian Constellation (NavIC) Disciplined Oscillator. 2. Automatic gas controller for boiling of liquids. 3. Synthesis and electrochemical characterisation of $NiCo_2O_4@MnO_2$/N-doped Graphene as composite electrode material for supercapacitor applications. 4. Smart Car Management System. 5. Fabrication of low-cost 3D printer 6. Remote monitoring and protection of UPS locations across The NorthCap University campus. 7. Design and fabrication of a hybrid rocket engine. 8. 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) Improving the outcome-based education process of the university: Although the university is doing well in this aspect there is scope of improvement in outcome-based education and curriculum development in terms of systematizing the stakeholder feedback process and fully incorporating the outcomes of programme attainments. 2) Embedding Practical Component in Teaching: Enhancing teaching effectiveness by embedding improved practical component in teaching. Increasing and improving student participation and determining the learning outcomes of Industrial visits and Workshops. 3) Creating a Central Repository for university data: Creating a Central Repository for storing all data required for NAAC, NIRF, QS Rating purposes. Making ERP more flexible and capable of reflecting the activities of all Departments simultaneously. Meticulous planning for course delivery and incorporation of time slots for Industry Visits etc. 4) Employability of Students: Enhancing students experience through better planning of placement activities. Efforts of getting all NCU students placed, irrespective of their grades. 5) Faculty Recruitment: Effort should be made to recruit senior research-oriented faculty members. 6) Student Activities and Leadership: Enhancing the overall experience of students by adding more Clubs and Societies at NCU. Improving the quality of students by integrating outside class activities with the curriculum. Improving visibility of events through NCU social media handles. 7) Improvement in Alumni Affairs: Improving the functioning of the Alumni Association of NCU. Getting the Association registered and making the Alumni play a pivotal role in building the brand image of NCU. 8) Introduction of Community Service as compulsory in curriculum of all programs: Take steps towards holistic development of students for introducing Community Service as compulsory component in UG/ PG Curriculums. This is in line with the NEP-2020 and also UGC guidelines on fostering social responsibility issued in Jan. 2020. 9) Policy for incentives to teachers who receive state, national and international recognitions/awards: Improvised policy of the stated matter should be prepared and approved. 10) Plan for improving international admissions and exchange programme: Prepare time-based targets for implementation regarding the above. Efforts should be made to rejuvenate earlier association and MOUs.