

**NIIT UNIVERSITY**  
**NH-8, Delhi-Jaipur Highway**  
**Neemrana, District- Alwar, Rajasthan-301705**

**Annual Report**  
**NIIT University, 2022-2023**

### Index

<b>Title</b>	<b>Point No.</b>	<b>Page#</b>
Introduction	1	3
Vision	2	3
Mission	3	3
Twelfth Convocation Ceremony	4	4
Fourteenth Annual Lecture	5	4
MoU Signed	6	5
Distinguished Lecture Series	7	6
Academic Programmes and improvements and Innovations in curricula and teaching-learning	8	7
Students on Roll till March 2023	9	10
Community Connect Programme	10	11
Library Collection	11	12
Workshops & Events	12	18
Detailed List of Research Activities at NU	13	25
Faculty Achievements	14	27
Students' Achievements	15	34
Co-Curricular & Extra-Curricular Activities	16	34
Challenges Ahead	17	39

## **1. Introduction**

NIIT University has been established and recognized by the Government of Rajasthan vide Act No. 5 of 2010 dated April 3rd, 2010. NIIT University (NU) has a mission to help society reach the highest international levels of excellence, through the pursuit of education, learning and research. The University has been dedicated in ensuring great careers for its students by forging deeper industrial links, creating a research-oriented culture and ensuring seamless education using the best technology available.

## **2. VISION**

To be the role model of learning, research, innovation and sustainability, for the knowledge society

## **3. MISSION**

- To deliver distinctive education through the pioneering use of technology.
- To develop superior talent through partnerships with industry and society.
- To promote research, discovery and entrepreneurship through collaborative action.
- To build responsible citizens of the world, by instilling a culture of seamlessness in all facets of life.

#### **4. TWELFTH CONVOCATION**

NU marked its 12th Convocation Ceremony on 15th of October 2022. The Chief Guest for the occasion was Mr. Suresh Narayanan, Chairman & Managing Director – Nestlé India Limited.

178 students were awarded Bachelor of Technology degree, 02 - Master of Technology degree, 09 - Master of Business Administration degree and 18 students were awarded the degree of Master of Business Administration (Integrated).

Following students were conferred with the Dr. Karan Singh Gold Medal for outstanding academic performance:

- i. Shravya Gupta (Bachelor of Technology (2018-2022))
- ii. Aishi Bhattacharya (Master of Business Administration (Integrated) (2018-2022))
- iii. Sudipta Kundu (Master of Technology (Geographic Information Systems) (2020-2022))

The Ram Rajindra Malhotra Medal was awarded to Ms. Bora Srikeerthana Reddy(B.2018-2022, Computer Science and Engineering) for her overall all-round performance.

#### **5. Annual Lecture 2022**

NIIT University celebrated its much-awaited 14th Annual Lecture on November 26, 2022. The campus was abuzz with enthusiastic students, academicians, and eminent dignitaries. The Annual Lecture is a yearly tradition which started with Dr Karan Singh's first ever lecture on November 15, 2009.

The 14th Annual Lecture was delivered by Mr Pavan K Varma, an Indian diplomat, statesman and an author. With his wise experience from such extensive fields, he spoke about the most fundamental question that occupies our mind once in a while - 'Who are we?' Mr. Varma walked everyone 5000 years back to the Upanishads and discussed the idea of 'Brahma' a consciousness, notwithstanding the vastness of the universe, that we are an integral part of. Mr Varma spoke of "Atma," or the soul, which manifests out of mind and is nothing more than "Brahma," hence the phrase "Aham Brahmasmi.". He said that the idea of defining who we are is to keep it undefined.

He then explained about the mind that needs to be calmed and to bring about that sense of calmness, one must feel the oneness. With examples from real life studies, he explained how meditation helps us in achieving that. He says that this is nothing but deeply enriching

dialogue. He gave the example of the three fundamental texts of Hinduism all of which are nothing but a dialogue between two entities. He explained that however individualistic we are in the grids of separated religion, the idea of this dialogue sets us in a unified nexus, in a framework of science and philosophy. This he says is the metaphysical exploration of the question 'Who are we?'

With rich knowledge from 5000 years back, he talked about how these questions sought a different answer in the contemporary world. He talked about how the main challenge right now is to understand one's own identity. In a world that is globalizing, the cultures tend to collide, and the challenge of identity is what the question has expanded to. He talked about his conversation with Amartya Sen and told how Amartya Sen will always remain an Indian despite living abroad. When cultures collide, one must be empathetic while at the same time acknowledge their own identity and roots and perhaps enlighten the global citizens about it. Mr. Varma went on to explain how both metaphysical and contemporary answers to the question are important and how they only serve to improve us during evolution that lies ahead of us. He concluded the 14th Annual Lecture. The session continued with a Question-and-Answer session in which attendees asked questions that led to fruitful discussions.

## **6. MOU with APSAC**

- Memorandum of Understanding (MoU) for Research, Academic and Scientific Knowledge Exchange in the field of Geospatial Technology and its allied Areas was signed between NIIT University and Andhra Pradesh Space Applications Centre (APSAC), Government of Andhra Pradesh on November 07, 2022. Research Collaboration, joint projects, submission to funding agencies and Ph.D. opportunities for APSAC Employees are the main objectives.

## 7. Distinguished Lecture Series

### Distinguished/ Founding Professor Lecture Series

S.No.	Date	Name of the speakers	Name of the company/Institute/University	Topics covered
1	Friday, September 02, 2022	Mr Saurabh Saha	Director, NASSCOM Futureskills Prime	Product Management
2	Wednesday, September 07, 2022	Shri Rajendra Singh	(Waterman of India)	Book Launch & Invited Talk
3	Monday, February 06, 2023	Prof. Sugata Mitra	Professor Emeritus, NIIT University, Former Professor, Educational Technology, Newcastle University, UK and Former Visiting Professor, MIT Media Lab, Cambridge, Massachusetts, USA	Artificial Intelligence and Learning
4	Tuesday, February 07, 2023	Dr. Sushmita Mitra	Former Director (SSS), NIOS	The need to develop Employability Skills
5	Wednesday, March 01, 2023	Ms Neelam Ahluwalia	Founder Member & Trustee of Aravalli Bachao Citizens Movement	Aravalli Bachao Campaign
6	Friday, March 03, 2023	Marcella O'Shea and Ishvinder Singh	Marcella O'Shea, Corporate Affairs APJC Manager – Cisco and Ishvinder Singh, India lead for skills & Cisco NetAcad	Cyber Security:- From Present to Future

### Book Launch

S.No.	Date	Name of the Author	Name of the company/Institute/University	Title
1	September 07, 2022.	Dr Rajendra Singh,	Waterman of India	Rejuvenation of Rivers
2	Saturday, February 04, 2023	Kadambari Rao Batra	Senior Management Professional	Start-ups and Disruption

## **8. Academic Programmes and improvements and Innovations in curricula and teaching-learning**

Academic Programmes at NU follow the University's core principles of industry-linked, technology-based, research-driven and seamless as the foundation. Through the transformational-process-involving courses, R & D projects, industry practices and other co-curricular components, the programmes seek to create exceptional leaders trained to operate in tomorrow's complex technology-oriented business environment.

The University offers programmes in engineering and management at undergraduate, postgraduate and doctoral levels. A brief synopsis about the academic programmes is listed below.

### **a. B. Tech.**

NU offers Bachelor of Technology Programme in the areas of Bio Technology, Computer Sciences, Electronics & Communication Engineering, Data Science and Cyber Security.

### **ii. M. Tech.**

NU offers Master of Technology Programme in the areas of Educational Technology, Geographic Information Systems and Cyber Security.

### **iii. Integrated M. Sc. in Computer Science Programme**

The Integrated M. Sc. Computer Science Programme at NU uses the university's four core principles: Industry-linked, Technology-based, Research-driven and Seamless, as its foundation. The 4-Year Programme is offered primarily to students who have opted for Physics, Chemistry and Biology and dropped Mathematics in Class 11 and 12 (or equivalent) and who wish to pursue a career in Computer Science.

### **iv. Integrated MBA**

4-Year Integrated MBA Programme is an innovatively designed degree programme meant for young students with managerial and leadership aspirations. The programme offers comprehensive management education combined with in-depth specialisation in a specific domain. Each Integrated MBA student will be mentored by an eminent corporate leader. As they share their rich experience and insights with students through scheduled personalized interactions using technology, students discover the nuances of real-life corporate excellence and accelerate their own integration into industry. The Mentorship Programme is just one of the many ways in which NIIT University transforms an academically-rich management programmes into the management programmes of the Future.

## **V. BBA**

NIIT University's 3-year Bachelors in Business Administration (BBA) programme aims to promote the employability of its graduates, so that they can prosper in an increasingly competitive age of Industry 4.0 that requires new and advanced skillsets. The BBA programme achieves this through a blend of academic study, and development of employability, and enterprise skills. Subject specific modules are supported by skills modules.

## **VI. Industry Sponsored Programmes**

NU believes that collaboration between the University and Industries can have a deep impact on the progress and growth of both. In order to achieve this, NU has launched a suite of Industry Sponsored Programmes.

Some Industry Sponsored Programmes that have been launched and are running successfully are:

- PGDBRM with Axis Bank
- M.Tech. Cyber Security with Infosys

## **VII. Ph. D.**

NU offers Ph. D in the areas of Educational Technology, Bio Technology, Computer Sciences, Electronics & Communication Engineering, Natural Sciences and Management.

## **Project Based Education**

In order to strengthen the outcome based education, the University has introduced a project-based learning approach to enhance the undergraduate learning experience. This course is being offered to students across all years of the B.Tech program.

The Project Based Learning Approach is implemented using project activities which are embedded in the course structure. A brief description of the project activity is below.

### **Project Activity-1**

The Additive Curriculum project CODEC has been initiated for 2nd Year BTech students by faculty members of Computer Architecture & Organization, Operating Systems, Database Management Systems, Educational Technology, and Cyber Security courses. The aim of the project is to enhance students' understanding of the subjects and improve their technical skills in a practical manner with industry-relevant roles. CODEC is a collaborative effort across various disciplines and faculty members, each contributing to the project with a weightage of marks. The project spans 6 to 8 weeks and includes mid-project reports and a final presentation



to a panel of professors. In the previous semester, students worked on a project that integrated Object-Oriented Programming with Communication Systems using the Wi-Fi module in their hardware prototype. This allowed them to apply their course concepts to a real-world project, building on their foundational knowledge and skills from the first year.

In the CODEC project, students implemented a Database Management System to handle data more efficiently and connect it to the UI/UX created in the previous semester. They also tested their application on a different Operating System and gained an understanding of App development. While constructing their application, they also considered Computer Architecture and Organization, incorporating better memory management and building security features through Cryptography.

Overall, the CODEC project provided students with practical experience and the opportunity to apply their knowledge and skills to a real-world project.

### **Project Activity-2**

An industry-linked project was initiated to deliver business solutions by integrating concepts from Mathematics and Computer Science. As part of the program, first-year BTech students who studied Linear Algebra and Differential Equations were given the opportunity to explore the application of these concepts in Digital Image Processing. The students engaged in various image processing activities, including Face Detection, Background and Object Detection, Face Verification and Cropping, and Fashion Detection. They were assisted by industry mentors who guided them in using various AI applications for program training. Through these hands-on experiences, the students gained exposure to real-world scenarios commonly encountered in the industry. They also prepared project reports that summarized their learnings from these interrelated activities, covering topics such as the implementation of linear algebra in image processing, image processing concepts, and the framework for training machine learning models.

### **Project Activity -3**

The students were guided to develop skills in Research, Documentation, Critical Thinking, and Digital Storytelling. This was accomplished through the mentorship of project teams comprising 1st/2nd-year students. Interested students with relevant skills applied for mentorship under the Workshop Practice Project or Mathematics or both.

## 9. Students on Roll till March 2023

Programme	Batch	M	F	Total	CSE	ECE	BT	CYS	DS	CCE
B.Tech.	2015	1	0	1	1	0	0			
B.Tech.	2017	5	0	5	5	0	0			
B.Tech.	2018	11	0	11	11	0	0			
B.Tech.	2019	106	38	144	137	2	5			
B.Tech. Jul	2020	129	37	166	119	4	4	15	24	
B.Tech. Jan	2021	6	0	6	6	0	0			
B.Tech. Jul	2021	77	39	116	96	1	7	6	5	1
B.Tech. Jan	2022	0	2	2	2	0	0	0	0	0
B.Tech. Jul	2022	125	41	166	146	2	11	4	3	
B.Tech. Jan	2023	1	3	4	3		1			
BBA	2021	1	0	1						
BBA	2022	4	1	5						
IMBA	2018	5	1	6						
IMBA	2019	17	11	28						
IMBA	2020	12	14	26						
IMBA	2021	15	15	30						
IMBA	2022	33	20	53						
MBA ISDE	Oct, 2021	27	4	31						
M.Sc. (CS)	2019	5	1	6						
M.Sc. (CS)	2020	2	0	2						
M.Sc. (CS)	2022	0	1	1						
M. Tech. GIS	Jan, 2021	1	0	1						
M. Tech. GIS	Jul, 2022	1	0	1						
M. Tech. CS	Jan, 2021	52	9	61						
M. Tech. CS	Jan, 2022	37	11	48						
M.Tech. ET	Jan, 2020	0	1	1						
M.Tech. ET	Jul, 2020	0	2	2						
M.Tech. ET	Jan, 2022	3	0	3						
PGDBRM	Nov, 2020	1	0	1						
PGDBRM	May, 2021	41	13	54						
PGDBRM	Oct, 2021	76	34	110						
PGDBRM	Apr, 2022	34	11	45						
PGDBRM	Oct, 2022	28	13	41						
PGDBRM	Dec, 2022	17	10	27						
PGDBRM	Mar, 2023	12	2	14						
Ph.D. ECE	Jan, 2014	1	0	1						
Ph.D. ET	Jan, 2014	0	1	1						
Ph.D. SCI	Jan, 2017	1	0	1						

Ph.D. MGT	Jan, 2016	1	0	1
Ph.D. MGT	Jul, 2016	0	1	1
PhD CSE	Jan, 2017	1	0	1
PhD GIS	Jul, 2017	1	0	1
PhD MGT	Jul, 2017	1	0	1
PhD ET	Jul, 2017	1	0	1
PhD ET	Jan, 2018	0	1	1
PhD GIS	Jul, 2019	1	0	1
PhD GIS	Jul, 2020	1	0	1
PhD ET	Jul, 2020	0	1	1
PhD ET	Jan, 2021	0	1	1
PhD GIS	Jan, 2021	1	0	1
PhD BT	Jan, 2021	0	1	1
PhD CSE	Jul, 2021	1	0	1
PhD CSE	Jul, 2022	1	0	1
Phd HSS	Jul, 2022	0	1	1
PhD HSS	Jan, 2023	1	0	1
<b>Total</b>		<b>898</b>	<b>341</b>	<b>1239</b>

## 10. Community Connect Programme

**The Community Connect Programme involves many initiative taken by students along with faculty members.**

### i. Teaching English to school children in the villages

NU students volunteered to help students in the surrounding village schools to take classes for teaching English. A detailed session plan was prepared to deliver such sessions. Each batch of 15 students from schools was assigned a NU student to deliver sessions. The effort brought about significant difference to the language skill of the students.

### ii. Tree Plantation Activity

In 2<sup>nd</sup> semester, The Community Connect Course involved plantations. Around 167 students were divided into 17 groups who participated in the activity and planted saplings.



## 11. Library Collection

LIRC is fully computerized and uses Koha (Open-Source ILS – Integrated Library System) as the Library Management System. It focuses more on digital content. All digital resources, LIRC catalogue, and details can be accessed at <http://library.niituniversity.in/> within NU campus. It has a good collection of text and reference books, and e-journals, and provides access to e-resources that are available in the public / open domain also.

Sn.	Resource	Number
1	Books	15219
2	Bound Volumes of Journals	342
3	Audio & Video Resources	1298
4	Thesis (NU Ph.D.)	9

### **Details of LIRC Subscribed Resources**

- **EBSCO Business Source Elite** – It provides access to the following peer-reviewed full-text journals. The collection consists of 1000+ management journals and magazines, 3000+ Management concepts summaries, news wire collection worldwide presses, classic eBooks and Hindi collection.
- **CMIE Prowess IQ** - Database of Listed and unlisted companies.

#### **i. Knowledge Dissemination Cell (KDC)**

The KDC provides Alert Information Service (AIS), Current Awareness Service (CAS), and Current Content Service. It continued to disseminate information and knowledge to keep abreast of its users. It kept abreast library users of the contemporary developments throughout the year.

#### **ii. DELNET (Developing Library Network)**

The LIRC is a member of DELNET and uses its Inter-Library Loan facility for NU Faculty members. DELNET provides access to a vast collection of print resources on demand. Its discovery tool provides access to bibliographical data of all libraries along with thousands of full-text e-contents.

#### **iii. National Digital Library**

NU LIRC has institutional membership of NDL. NU users' accessed the contributed contents (text, audio, video, image, animation, simulation, presentation, and application) of IIT Kharagpur, IIT Delhi, IIT Bombay, IIM Ahmedabad, NCERT, and NPTEL (IIT Madras). The platform provides Access to vast collection that include theses, articles, audio lectures, video lectures, books, etc.

#### **iv. Information and Library Network (INFLIBNET)**

NU LIRC has a membership of INFLIBNET Centre, Gandhinagar is an Autonomous Inter-University Centre (IUC) of UGC. It supports academic libraries in providing better services to users. NU LIRC has been taking advantage of INFLIBNET Centre and constantly adding new tools and services to its profile.

**v. Shodhganga : A reservoir of Indian thesis**

NU LIRC is member of Shodhganga. It provides access to vast collection of theses. Ph.D.

**vi. E-ShodhSindhu: Consortium for Higher Education Electronics**

NU LIRC is a member of the E-ShodhSindhu consortium. ESS provides negotiated rates for members.

**vii. Shodh Suddhi**

It Provides access to Plagiarism Detection Software called Ouriginal. . NU users can check the similarity level in the research papers and related works. Access to PDS (Plagiarism Detection Software: URKUND) has also been provided to newly joined faculty.

**viii. INFLIBNET Access Management Federation ( INFED )**

NU LIRC became a member of INFED during a pandemic. It has successfully implemented “Shibboleth” remote access tool and access to subscribed e-contents is available via Shibboleth platform.

**ix. INFLIBNET Learning Management System (Moodle )**

NU Library has also implemented INFLIBNET’s Learning Management System. Now, access to ePG Pathshala e-contents is available to NU users through this learning management system.

**x. Research Aid**

- a. University library provides access to Turnitin, Plagiarism Detection Software, and guides students and faculty members to control the similarity level in the proposed research projects, thesis and research papers.
- b. Research tools like Turnitin, Mendeley, UGC-CARE, ORCID, Publon, and Shodhganga have been integrated with library portal to provide research aid.

**xi. IRINS and Vidwan**

The IRINS and Vidwan platform has been implemented to integrate faculty profile and research. These platform provide access to the NU faculty profile with research metrics.

**xii. QuillBot**

Access to QuillBot, an academic writing platform, has been provided to users via the library portal. This platform helps NU faculty and students in Grammar checking and paraphrasing and similar activities.

**xiii. Re-Engineering of LIRC portal (Koha OPA)**

New services that were added and provided by the library were made available through the library portal, <https://library.niituniversity.in/> using Koha OPAC (Open Source ILS – Integrated Library System) to internal users.

**xiv. User awareness and information literacy**

<b>Workshop / Webinar / Visit / Lecture and Talk organized by LIRC</b>		
<b>Sn</b>	<b>Particular</b>	<b>Date</b>
<b>1.</b>	Prof. Shailendra Kumar, Professor & Head of the Department (DLIS), University of Delhi visited NU LIRC	Jul 16, 2022
<b>2.</b>	Training workshop on Shodhchakra : A Gateway to Researchers for Resources by INFLIBNET for IQAC, Office Dean Research and Shodhganga Coordinator	Aug 10, 2022
<b>3.</b>	Dr.Vinay Kumar Kainthola, Dy. Librarian delivered a talk on "How academic libraries are writing a new chapter during the pandemic: your ideas that have impacted library services “on the occasion of Librarians’Day-12 <sup>th</sup> August2022.	Aug 12, 2022
<b>4.</b>	NU Library System for for B. Tech and iMBA students	Aug 26, 2022
<b>5.</b>	Workshop on EBSCO (BSE) for faculty members	Sept 15, 2022
<b>6.</b>	Workshop on EBSCO (BSE) and Prowess IQ on 18th Oct 2022 for faculty members	Oct 18, 2022

7.	Orientation for Access Bank Students	Dec 21, 2022
8.	Workshop on Use of Turnitin Similarity: Precautions while writing to students enrolled in NU 302 R&D project	Jan 17, 2023
9.	Workshops on Use of Turnitin Similarity: Precautions while writing to students enrolled in NU 302 R&D project.	Jan 19, 2023 (9:30 – 10:30 am )
10.	Workshops on Use of Turnitin Similarity: Precautions while writing to students enrolled in NU 302 R&D project	Jan 19, 2023 (2:30 – 3:30 pm)
11.	Workshop on Use of Mendeley Discovery and Mendeley Reference Manager to the students enrolled in NU 302 R&D project	Mar 14, 2023
12.	Workshop on Use of Mendeley Discovery and Mendeley Reference Manager to the students enrolled in NU 302 R&D project	Mar 16, 2023 (9:30 to 10:30 pm)
13.	Workshop on Use of Mendeley Discovery and Mendeley Reference Manager to the students enrolled in NU 302 R&D project	Mar 16, 2023 (2:30 to 3:30 pm)
14.	Dr. Vinay Kumar Kainthola, Dy. Librarian name included as National Programme Committee Member for The 11 International Library Information Professionals' Summit (I-LIPS) on New and Innovative Libraries in Digital Era: Services and Practices	To be organized between April 13-15, 2023 ).

### **Training and Development**

Many webinars were attended by the library team which enhanced their professional skills.

LIRC is fully computerized and uses Koha (Open-Source ILS – Integrated Library System) as the Library Management System. It focuses more on digital content. All digital resources, LIRC catalogue and details can be accessed at <http://library.niituniversity.in/> within NU campus. It has a good collection of text and reference books, e-journals, and provides access to e-resources which are available in public / open domain.



**LIRC at a Glance**

<b>Sr. No.</b>	<b>Resource</b>	<b>Number</b>
<b>1</b>	Books	13552
<b>2</b>	E-Journals	4668
<b>3</b>	Magazines	15
<b>4</b>	Bound Volumes of Journals	342
<b>5</b>	Audio & Video Resources	1262
<b>6</b>	Newspapers (Multiple Copies)	4
<b>7</b>	E-Newspaper	1
<b>8</b>	Thesis ( NU Ph.D.)	5
<b>9</b>	E-Thesis (Ph.D.)	2+ Lakhs
<b>10</b>	National Digital Library Contents	2+ Crores
<b>11</b>	National Journals ( Print )	4

## 12. Workshops & Events

### Educational Activities Organized by NU :

- CSE Area and DSCI (Data Security Council of India) successfully organised two workshops and Roundtable Conference on 'Power Security' on 18<sup>th</sup> February and 2<sup>nd</sup> May 2022. Dr. Tripta Thakur, Director General, NPTI, Govt. of India, Mr. M.A.K.P. Singh, CE (IT), CEA, Govt. of India amongst others participated in these workshops.
  - **NU-ISCO Net Academy Programme:** 150+ students completed ISCO NetAcad courses and Certification during 9<sup>th</sup> Jan'22 to 30<sup>th</sup> Apr'22.
  - An IPR Awareness Program was organised on 19<sup>th</sup> Apr 2022 under the National Intellectual Property Awareness Mission (NIPAM) by Office of the Controller General of Patents, Designs and Trademarks (CGPDTM), Ministry of Commerce and Industry, Government of India in collaboration with Internal Quality Assurance Cell (IQAC), NIIT University, India.
  - **Learn from Masters (LFM) Series by Mr. Suveer Chainani on “Understanding Equity Markets”:** Mr. Suveer Chainani is the Managing Director CLSA's Mumbai office
    - i. 45 students of PGDBRM Axis Bank enrolled in this 4-week (Weekend Only) Online Certificate Audit course. The First session was held on the 30<sup>th</sup> April 2022. 2<sup>nd</sup> and 3<sup>rd</sup> sessions were held on 7<sup>th</sup> and 14<sup>th</sup> May respectively. The last session will be held on the 28<sup>th</sup> May.
    - ii.
- **IngeNUity 2022: An annual student fest organized every year.** It was held between 22<sup>nd</sup> to 24 April 2022. Some of the key elements of the event were:
- 13 external institutions participated with around 500 participants from external institutions.
  - Events: Stand up Comedy, Live Band, Fashion Show (sponsored by W), 5 DJs.
  - Cultural events were organized.
- **The Asian Lenses Forum (TALF)**
- NIIT University initiated an effort with an intent to inculcate a sense of pride amongst young students about their rich cultural heritage and to discover the past without being xenocentric or ethnocentric. Under this initiative , three events were organized.
- a. Alwar Heritage Walk (12th March 2022) - 26 students and 2 faculty members went for a heritage walk in Alwar. The students were able to witness ancient rock paintings as Dadhikar, visit the Alwar fort and Bala Qila along with the city museum. All students submitted the writeups of their experiences and learnings. The best article will be published in the March issue of the NU Newsletter.
  - b. Sketching competition- Manga/Japanese comic characters held on August 31, 2022, total 25 students participated and the Judges were Dr. Poonam Dey & Dr. Deepak Khanna
  - c. Decoding the Indian classical - the event was held for Hindustani vocals on September 29, 2022, Presenter – Krishna Routh & Arpit Diwan (on tabla).

➤ **Center for Incubation, Innovation & Entrepreneurship (CIIE) :**

The University has a fully functional incubation cell which supports , guides and fosters the spirit of entrepreneurship amongst students. The CIIE has supported many startups from Campus some which are now operating internationally. Under the guidance of CIIE four start-up ideas emerged in the year 2022. Three of them are from our existing NUtons and one by alumnus.

S. No	Founder's	Class	Branch	Start-Up Name	Nature of Startup
1	Aakash Gupta	2024	iMBA	Sugardaadi	E-Commerce
	Ananya Kambhampati	2024	iMBA		
	Sreejita Mukherjee	2024			
2	Harsh Parmar	2022	CSE	ClanUrban	E-Commerce
3	Joel Jaison	2023	MSc	HoverFly Drones	Automation Consultancy
4	Aditya Prakash	2019	CSE	Science-o-mania	Infotainment

With this, number of start-up ideas emerged from NU stands at 56 since inception.

**In addition, following events were organized by CIIE:**

1. PitchpreNUre 2022:

An event aiming to test the entrepreneurial skills of the participants while actively challenging them to bring out creative solutions to real-world problems. PitchpreNUre had transpired in 2 phases with Phase 1 of the event took place on 8th March 2022 Phase 2 of the event took place on 13th March 2022.

2. Internship fair: Providing the opportunity to NUtons for harnessing their tech/non-tech skills while working in a start-up company for two-month summer internship. The fair was organized in the month of May 2022.

➤ **Incubation support at NU:**

Team Sugardaadi and HoverFly Drones incubated at NU in the semester (Jan-May 2022).

➤ **VanMahotsav2022**

Van Mahotsav is celebrated on the 28th of July every year to bring together the local community, students and staff for a common goal- saving the environment.

Like every year, it was delightful to watch students of various schools from around Neemrana right from Grade 1 to 12 participate enthusiastically in the happenings of the events around them. The event was formally inaugurated by Mr. R S Pawar, Chairman, and Founder of NIIT University, and Mr. V K Thadani, Co-Founder of NIIT University, in the presence of NIIT

University's Leadership, staff, and students along with people from the local community. It was followed by planting a tree "VAN-2022" symbolically through the hands of all, for this noble cause. This year's cultural event was a 'Kavi Sammelan' where students from the Kavishaala, the poetry club of NIIT University, and artists from around Rajasthan came together to recite their works of art to entertain their audience. Along with the cultural events, a simultaneous plantation of trees was undertaken by school students visiting NIIT University and NIIT University's Staff help. These enthusiastic students were allowed to ask various questions regarding the plantation which were clarified by the gardeners helping with the plantation process.

After the cultural events, a community lunch was organized by NU for everyone, in which the students of NU proactively participated in serving food to everyone. Along with the events, plantation, and community lunch, NU also organized a donation drive to help and support the needy or underprivileged. All the participants felt reinvigorated watching the plantation take place as well as witnessing the progress of this movement from its inaugural year, 2009 where everyone thoroughly enjoyed and participated in all the activities and events that were held. To see children, elders, and people of various ages come together in joy and happiness and join in for a noble cause was a spectacle worth watching.

#### **Other Events organized at NU:**

- **76<sup>th</sup> Independence Day:** The event was celebrated with joy and colours and consisted of following events:
  - 20 members of the support staff were given cash awards for their exceptional performance in last one year.
  - An entertaining cultural show was organised by the Music, Dance and Theatre clubs and the Poetic Society.
  - Eloquent speeches by the University Captain and Vice- Captain.
- **Teachers Day** was celebrated on 05 Sep and was organised by Team ingeNUity. Interesting cultural events by Music, Dance, Theatre and Kavishala Teams.
- **National Hindi Day** was observed on 14 Sep.
- **National Engineers Day** was observed on 16 Sep.
- **Blood Donation Camp:** It was held on 20 Sep 2022 and was organised by NSS & TEDx teams, in collaboration with the Red Cross New Delhi. 80 units of blood was donated.

- **HULT Prize 2022:** The Competition was held on 08 Nov in which 15 Teams from NU participated. Team ZXERO, an all-girls team (Aanya Tripathi, Chetna More, Gunika Singh, Akansha Shanmugam and Samvidha Shukla) were the winners.

- **EdTech Summit and Founders Growth Camp**

One day virtual seminar in collaboration with NIIT Ltd. inviting early stage and small startups was held online on October 13, 2022. There were insightful sessions and panel discussions by Industry leaders. Selected participating startup founders were invited for an exclusive Founders Growth Camp at NU Campus.

Three days campus program with 9 selected startup founders was held between November 16 to November 18, 2022. The camp brought together founders, students, faculty members and Industry leaders and investors together. There were intense interactions among these during the camp. Following masterclasses and sessions were held:

#### **Masterclass**

- Nitya Agarwal – VP, 3One4 Capital: Fundraising - Powerful storytelling for your start-up pitch
- Vinayak Godse, CEO - Data Security Council of India: Cyber Security - Building Secure Products & protecting Consumer Data
- Avani Davda, Ex-CEO - Tata Starbucks, Strategic Advisor at Bain, Board Member - NIIT Ltd: Go to market - Business design & strategy
- Shanoop Krishnan, Azure Data & AI Lead - Microsoft India: Leveraging Technology - Using data and AI for better outcomes
- Saurabh Saha, Global Product Coach: Product Thinking - Finding product market fit

#### **Sessions**

- Ravi Garikipati, Co-founder - Davinta Finserv, Ex-CTO - Flipkart, Board Member - NIIT Ltd: Fireside chat
- Rajendra Singh Pawar, Chairman - NIIT Group: RASA
- Sapna Moudgil, Director - NIIT Foundation & Associate Prof Ritu Dangwal - NU: Designing Sustainable Social Impact Organizations
- Gautham More & Prof Vijay Mandke: Frontier of Learning Technology – How to make learning effective
- Geetika Rastogi: Overview of Industry Collaboration at NIIT University

#### ➤ **Entente 2022**

NIIT University held its annual international conference, Entente from 3rd November to 5th November in the field of technology, management, and humanities. Digitization and advancements in information technology has significantly proliferated GLOCAL information mobilization.

### ➤ **The SiNUoid Tech Fair**

The Tech fair hosted by NUtons on November 19, 2022 highlighted the skills of NUtons in creating working prototypes of solutions proposed for real-life problems.

The following projects were showcased which very neatly integrated the subjects of Communication Systems and Object Oriented Programming that are taught as separate courses in the CSE curriculum, while understanding both business and learning processes that take place in such an effort.

- Smart Lock System used in Motorcycle
- Smart monitoring and Navigation of Students
- Contactless Healthcare Companion using IoT Sensors
- IoT based Healthcare Management System
- IoT based Laundry Management System
- IoT based Battery monitoring System and Charging Management for Electric Vehicle
- Restaurant Automation Management
- Personalized Advertisement based on Location
- Energy Meter
- IoT in Smart Agriculture
- Automatic Car Locking System
- Smart Waste Managemnt System
- IoT & Alexa, Voice based Home Automation
- Smart Car Parking System
- IoT based Online Discussion Forum with Doctor
- IoT Street Lighting Technology
- Smart Stick
- IoT based Smart Lightning Green Technology Solution
- Medical reminder system

A few unique features stood out in these projects.

- While these kind of projects are usually done by ECE students, most of them were done by CSE students. This exposure to hardware in the form of Arduino boards and sensors becomes a big advantage for our students doing CSE.
- All the projects showcased how data collected from hardware sensors could be relayed to a database in the cloud and then pulled back into a GUI based interface which a user would be able to understand in a more meaningful manner.
- This integration was possible because of the interfacing of three subjects - Communication Systems, Object Oriented Programming Language and Learning Technologies, which are taught in the curriculum for the 2nd Year CSE students.
- The professors involved in this integrated project are Prof. Jetendra Joshi, Prof. Manish Hurkat and Prof. Meera Datta, respectively, for the subjects mentioned above.

### ➤ **Nanhi Chhaan 2022**

NIIT University welcomed students from across India, who won the National Essay competition organized by Nanhi Chhaan on 12<sup>th</sup> December, 2022 at NU Campus. The top nineteen winners, who came with a few teachers and parents, were given a warm welcome by the faculty and NUtons. Many interactive sessions took place in the field of management, geographic information system and communication skills in which the NC students took part eagerly. The students were also taken on a Suryodaya trek to the Aravali range adjacent to the University Campus. The following day, students were also taken on an ECO campus tour by Major General (Retired) A.K. Singh. Thereafter, the NU leadership, Dr. Rajesh Khanna, NIIT President, Dr. Parimal Mandke, Vice-President NIIT University, Mr. Shivendra Mathur, Registrar, NIIT University shared their words of encouragement for the future endeavors of students. The students were accompanied on a heritage walk to Baoli in Neemrana where the students got a chance to appreciate the rich heritage of Rajasthan.

On the penultimate day of their stay, a 3-hour long session was organized for the Nanhi Chhaan students to engage on various social, cultural and educational issues. The students had a great insight on the ongoing social issues and engaged in various debates amongst their peers that was moderated and sustained by NIIT Founder, Mr. Rajendra Singh Pawar and Nanhi Chhaan founder, Mr. Harpal Singh. Immediately after this thought-provoking discussion, students were asked to present a presentation in groups on the topic of their choice. Their presentations were remarkably interactive and informative. Every evening, sports games were held under the supervision of Mr. Rizwan and Ms. Sapna. We also organized a Yoga session for two consecutive mornings, which many students and parents attended and felt absolutely rejuvenated. The NU authorities organized a talent show, and the NC students wowed us with their mesmerizing paintings, dance performances, and martial arts, which were well received by our audience. On their last evening a bonfire with light music was held for our Nanhi Chhaan guests. The closing address was given by NIIT President, Dr. Rajesh Khanna followed by the distribution of certificates. Towards the end of their stay the NU family said goodbye to our beloved guests with a heavy heart and thanked them for such wonderful memories which will be cherished by each one of us.

➤ **National Youth Day** was celebrated on January 12, 2023.

➤ **Raath Mahotsav, Kite Festival and Army Day** were celebrated on 15 Jan in which following events were conducted:

- Army Day with NUtons, Nurturers, NCC Cadets from MDVM Parle School and local Community Leaders.
- Cultural show led by NU Kavishala, local folk artist and singers.
- Kite Flying Competition. Community lunch with the local community.
- Donation of clothes and blankets to the needy persons.

- **National Girl Child Day** was celebrated on 24 Jan.
- **Republic Day:** It was celebrated at NU with the following events:
  - Unfurli ng of National Flag and speech by the President. Interesting speeches by the University Captain and Vice-Captain as well as few students.
  - Dance performance by 'NU IMPETUS' members and group songs by NU 'VERISMO' members.
  - Distribution of awards to 20 support staff members by the President.
  - Launch of '**viNUmr**' **Campaign**, with a brief introduction by Air Cmde Kamal Singh, followed by interesting and related Nukkad Natak by 'NU RANGMANCH' and Poetry by 'NU KAVISHALA'
- **Gaming Marathon** was organised by 'NU GAMERS' on 28th and 29th January. It saw enthusiastic participation from over 110 players and an equal number of cheer leaders. The five games conducted included Ludo, Chess, Clash Royale, Among Us and FIFA'22.
- **Martyr's Day** was celebrated on January 30, 2023.
- **Walking Together:** A unique and interesting "**Walk of Togetherness**", curated by the Fashion Society 'NU PRISM', was organised on 6<sup>th</sup> Feb, where NUtons and NUrtners walked in step together, dressed in best possible regalia.
- **Aravalli Bachao Citizens Movement/01 Mar 2023:** Awareness and outreach Session conducted by Ms Neelam Ahluwalia. It was followed by exploration cum survey of illegal mining and exploited areas of Aravalli Ranges in Alwar and Bharatpur districts with the NU GIS Team.
- **HR Conclave by GoR/ 03 Mar 2023:** NU hosted the HR Conclave, an initiative by IT Dept. of GoR, as a prelude to Mega Job Fair at Jaipur from 19 to 21 Mar 2023. HR heads of most of the industries at Neemrana attended.
- **Visit by CSEP (Centre for Social and Ecological Progress)/ 04 Mar 2023:** Eight delegates, including spouses, attending the CSEP Meet at Neemrana Fort visited NU Campus. They were briefed about Sustainability Initiatives at NU, Green Airconditioning, Water Conservation, Afforestation, TALF initiatives and Community Connect. Each of them planted a sapling at the end of the visit.
- **World Water Day/ 22 Mar 2023:** Was organised on the Campus by NU-NSS to create awareness about the importance of water conservation and protection of our water resources. The Campus where following events were conducted:
  - a. WWD Morning Quiz.
  - b. Poster Making Competition.
    - 1st prize- Muskan Gupta, 2nd prize- Shailja Tripathi, 3rd prize- Mansi Pathak & Ankita Kapoor.
  - c. Presentation by the Music Club and NU Kavishala.



### 13. Research Activities at NU:

#### I. Number of papers published/accepted in peer reviewed journals/conferences (Faculty)

Number of papers published in peer reviewed journals	Number of papers accepted in peer reviewed journals	Number of papers presented in conferences	Number of papers accepted in conferences	Number of edited volume book published	Number of book chapters published
36	4	18	6	0	9

\*\* Patent published – 2, Patent Submitted -3

#### II. Number of papers published/accepted in peer reviewed journals & conferences (Students with faculty members): 2 Journal Papers + 6 conferences.

#### III. Ph.D. students (Area wise)

Area	No. of students
Biotechnology	1
Computer Science	3
Electronics and Communication Engineering	1
Educational Technology	2
Geographical Information System	4
Mathematics and Basic Sciences	1
Management	3
Humanity and Social Science	2

#### **IV. Publication Reward (Under Research Promotion Policy) – 36**

<b>Area</b>	<b>Rewards</b>
<b>Biotechnology</b>	4
<b>Computer Science</b>	9
<b>Electronics and Communication Engineering</b>	11
<b>Educational Technology</b>	0
<b>Geographical Information System</b>	4
<b>Mathematics and Basic Sciences</b>	6
<b>Management</b>	2
<b>Humanities &amp; Social Science</b>	0

#### **V. R & D project & Advanced R&D project**

Total R&D projects were 59 for 149 students, which were completed in June 2022. Currently total number of R&D is 58 for 175 students. Total Advanced R&D project was 7, which were completed in December 2022. The outcome of R&D project and AR&D are shown below.

- Patent Published – 1
- Best Paper Awards – 2
- Best Award for project innovative idea – 1

## 14. Faculty Achievements

S. No.	Faculty Name	Achievement(s)
1.	Dr. Sushil Kalyani, Associate Professor & Area Director, Management	Dr. Sushil Kalyani, Associate Professor & Area Director, Management area along with authors from other organizations have been granted Australian patent titled “AN ION EXCHANGE PROCESS FOR INDUSTRIAL WASTE WATER TREATMENT”
2.	Dr. Sushil Kalyani, Associate Professor & Area Director, Management and Dr. Gyanesh Jain, Assistant Professor, Management	Dr. Sushil Kalyani, Associate Professor & Area Director, Management area and Dr. Gyanesh Jain, Assistant Professor, Management area along with authors from other organizations have been granted South African Patent titled “A METHOD FOR INVESTIGATING THE MANIPULATED FINANCIAL STATEMENTS OF AVIATION COMPANY”
3.	Dr. Chandan Medatwal, Asst. Professor, Management	She is one of the authors of Australian patent, granted on 11th May 2022 titled “NOVEL COVID UMBRELLA SYSTEM AND METHOD FOR MAINTAINING PHYSICAL DISTANCE TO PREVENT COVID-19 TRANSMISSION”
4.	Dr. Ashwini Kumar, Asst. Professor, BT & BI	Was invited as a Speaker by G. B. PANT Government Engineering College, Uttarakhand on "National Science Day" on 28th Feb 2022.
5.	Dr. Utkarsh Raj, Asst. Professor, BT & BI	Was the ' <b>Coordinator</b> ' for an IPR Awareness Program on 19 <sup>th</sup> Apr 2022 under the National Intellectual Property Awareness Mission (NIPAM) organized by Office of the Controller General of Patents, Designs and Trademarks (CGPDTM), Ministry of Commerce and Industry, Government of India in collaboration with Internal Quality Assurance Cell (IQAC), NIIT University, India.
6.		Has become the member of 'European Biotechnology Network' in April 2022.
7.		Has become the member of “International Society for Infectious Diseases (ISID)” in May 2022.
8.		Selected as a ‘Community Associate Member’ in American Chemical Society (ACS), June 2022
9.		Has become the ‘Associate Member’ of the International Society for Development and Sustainability (ISDS), July 2022

10.		Published a research paper in “Journal of Applied Biology and Biotechnology journal” (Web of Science & Scopus indexed), Jul 2022
11.	Dr. Vinay Kumar Kainthola, Asst. Librarian & I/C LIRC	Delivered a lecture on the topic “ <b>Use of Turnitin Similarity: Productions while writing</b> ” in one week Online National Workshop (23rd to 29th April 2022 ) on 28th April 2022 by Central Library & IQAC of Arya Girls College, Ambala Cant in collaboration with Haryana Granth Akademi, Panchkula.
12.	Dr. Narayan Kumar, Asst. Professor, BT & BI	Chaired a session at the International Conference on Advanced Materials in Innovative Technology (AMITY-2022) held at Amity University, Jaipur during 5 <sup>th</sup> to 7 <sup>th</sup> April 2022 in virtual mode.
13.		Presented a paper entitled “Computer aided analysis of phytochemicals as potential Zika virus inhibitors based on molecular docking and ADMET property studies” in International Conference on Advanced Materials in Innovative Technology (AMITY-2022) during 5 <sup>th</sup> to 7 <sup>th</sup> April 2022.
14.		Presented a paper entitled ““Isolation and Identification of Aluminum Tolerant Bacteria” in International Conference on Advanced Materials in Innovative Technology (AMITY-2022) during 5 <sup>th</sup> to 7 <sup>th</sup> April 2022.
15.	Prof. Ajay Kumar Singh	Published two research papers in "ADBU-Journal of Engineering Technology" indexed in UGC (CARE), May 2022
16.	Prof. Ajay Kumar Singh, Mr. Jitendra Joshi	Published a research paper in "ADBU-Journal of Engineering Technology" indexed in UGC (CARE), May 2022
17.	Dr. Sanjay Biswash, Mr. Supratik Banerjee	Published a research paper in "Physical Communication" indexed in SCI, June 2022
18.	Dr. Thota Sivasankar	Published a research paper in "Geocarto International" indexed in SCI, May 2022
19.	Mr. Jitendra Joshi	Published a research paper in "ADBU-Journal of Engineering Technology" indexed in UGC (CARE), May 2022

20.	Dr. Lopa Pattanaik	Published a research paper in "Environmental Technology & Innovation" indexed in SCIE, May 2022
21.		Has become the Life member of 'The Biotech Research Society, India (BRSI)', May 2022
22.	Dr. Prashant Srivastava	Published a research paper in "ADBU-Journal of Engineering Technology" indexed in UGC (CARE), May 2022
23.	Prof. Ratna Sanyal	Published a research paper in "Journal of Intelligent & Fuzzy Systems," indexed in SCIMAGO, June 2022
24.	Mr. Supratik Banerjee	Published a research paper in "ADBU-Journal of Engineering Technology" indexed in UGC (CARE), May 2022
25.	Dr. Vikas Upadhyaya	Published two research papers in "ADBU-Journal of Engineering Technology" indexed in UGC (CARE), May 2022
26.	Dr Narayan Kumar	Published a review article in "Asia Pacific Journal of Molecular Biology and Biotechnology journal" (Scopus indexed), Aug 2022

## Publications

### Journal Publications

- **P B Wale, T Sivasankar, V N Mishra, and R Sanyal**, "Flood inundation mapping from synthetic aperture radar and optical data using support vector machine: a case study from Kopili River basin during Cyclone Amphan", Radar Remote Sensing, pp. 203-217, 2022, <https://doi.org/10.1016/B978-0-12-823457-0.00017-3>.
- **V N Mishra, and T Sivasankar**, "Evaluation of speckle filtering methods using polarimetric Sentinel-1A data", Radar Remote Sensing, pp. 245-255, 2022, <https://doi.org/10.1016/B978-0-12-823457-0.00006-9>.
- **S Mitra and R Dangwal**, "Effects of Internet Access During Examinations", Journal of Learning for Development-JL4D, 2311-1550, 2022, Vol. 9, No. 1, pp. 129-136.

- **A Kumar**, R K Sahu, S Chameettachal, F Pati, A Kumar, “Fabrication and analysis of chitosan oligosaccharide based mucoadhesive patch for oromucosal drug delivery”, Drug Development and Industrial Pharmacy 2022, <https://doi.org/10.1080/03639045.2022.2146705>.
- **A Kumar**, A Kumar, “Non-small-cell lung cancer-associated gene mutations and inhibitors”, Advances in Cancer Biology – Metastasis 2022, <https://doi.org/10.1016/j.adcanc.2022.100076>
- **S Kalyani** and **A Kumar**, “An Empirical Study of Impact of NPA on Performance of Selected Banks of India”, Journal of the Asiatic Society of Mumbai”, 0972-0766 .
- **S Mitra**, The internet as a subject in schools, Prospects, 2022, <https://doi.org/10.1007/s11125-022-09620-x>
- **Narayan Kumar** and **Heena Bisht**, “Plant and microbe mediated bioremediation: A long-term remedy for heavy metal pollution”, Asia Pacific Journal of Molecular Biology and Biotechnology, pp. 69-90, 2022, <https://doi.org/10.35118/apjmbb.2022.030.3.07>
- **Ritu Dangwal** and **Prof Sugata Mitra**, “Human Resources Development for the Business Process Outsourcing Industry in India – A Scheme for Quality Improvement”, Iconic Research and Engineering Journals, pp. 119-125, 2022, <https://www.irejournals.com/index.php/paper-details/1703764>
- **Ritu Dangwal**, “Impact of Computer literacy, Communication and Comprehension skills using an online pedagogical tool during COVID”, Journal of Emerging Technologies and Innovative Research, Volume 9, Issue 11, 2022, <https://www.jetir.org/papers/JETIR2211194.pdf>
- **Supratik Banerjee** and **Sanjay Kumar Biswash**, “Enhanced request adaptive scheme for Information-centric vehicular networks”, Physical Communication, 2022, <https://doi.org/10.1016/j.phycom.2022.101772>
- **Kumar Nitesh**, “A Novel Multi-Objective Optimization-Based Path Formulation for Mobile Sink in Wireless Sensor Networks”, Arabian Journal for Science and Engineering 2023, ISSN- 2191-4281, <https://doi.org/10.1007/s13369-023-07636-9>
- **Gurendra Nath Bhardwaj**, "Fostering Corporate Entrepreneurship in SMEs: Evidence from India", Journal of Enterprising Culture, Vol. 31, No. 01, pp. 25-46 (2023), <https://doi.org/10.1142/S0218495823500012>
- **Ajay Kumar Singh** “Energy-Efficient and Variability-Resilient 1T1R SRAM Design Using Data-Aware Read–Write Assist (DARWA) Technique for Low-Power Applications”, Sensors, **Vol. 23**, Page 1-34, 2023, <https://doi.org/10.3390/s23115095>

- **Ritu Dangwal** “Change Maker Life Skill Program – A Pilot Study by NIIT Foundation”, International Journal of Advanced Multidisciplinary Research, Volume 10, Issue 5, 2023, [10.22192/ijamr](https://doi.org/10.22192/ijamr)
- **Narayan Kumar, Heena Bisht**, “Identification and Characterization of Aluminium Tolerant Bacteria Isolated from Soil Contaminated by Electroplating and Automobile Waste”, Nature Environment and Pollution Technology, **Vol 22, Page 411-416**,  
doi <https://doi.org/10.46488/NEPT.2023.v22i01.039>

### Books and Book Chapters

- **S Ghosh, T Sivasankar** and **G Anand**, “Use of Remote Sensing in Lineament Analysis: Exploring its Potentials in a Humid Subtropical and Semi-Arid Environment”, in Atlas of Structural Geological and Geomorphological Interpretation of Remote Sensing Images Editor(s): Achyuta Ayan Misra, Soumyajit Mukherjee, Chapter 14, 2022, Wiley, <https://doi.org/10.1002/9781119813392.ch14>
- **Ananya Tripathi, Keshav Mittal, Ratna Sanyal**, “Crime Rate Prediction Using Web Scraping”, Project Innovation in Distributed Computing and Intelligent Technology, Proceedings of 12<sup>th</sup> Project innovation Contest, World Leadership Academy, January 2023, ISBN-978-93-94318-07-6.

### Patent Publication

- **Sudip Sanyal, Pearl Miglani**, “Method for identifying anomalies for high dimensional datasets”, The patent Office Journal No. 03/2023 Dated 20/01/2023.

### Conference Presentations

- **S Malwe, L R Mallela, R R Vujjini**, Location-aware Octa section Routing protocol (LOR), IEEE Second Mysore Sub Section International Conference, **MysuruCon 2022**, 2022.
- **C Medatwal, K Jain, A B Prasad**, Analyzing Employees’ perception towards Work Life Balance for holistic human capital management, Second International Conference in Humanities & Social Sciences, Management and Educational Technology, **ENTENTE 2022**, November 2022.
- **K Jain**, A Predictive Model for Nifty 50 and the Comparative Analysis of Nifty Indices, Second International Conference in Humanities & Social Sciences, Management and Educational technology, **ENTENTE 2022**, November 2022.
- **Y Pal , N Jain**, Problem of Mentorship Training of Undergraduate students in an Online Mode without Practical management, Second International Conference in Humanities & Social Sciences, Management and Educational technology, **ENTENTE 2022**, November 2022.
- **D Khanna**, State of the Indian Economy: Clear evidence of a K-type recovery after the pandemic, Second International Conference in Humanities & Social Sciences, Management and Educational technology, **ENTENTE 2022**, November 2022.

- **S Verma**, Madness in Migration: A Study of Sadat Hassan Manto's short story, Toba Tek Singh (1955) and Gulzar's poetry, Toba Tek Singh (2001), Second International Conference in Humanities & Social Sciences, Management and Educational technology, **ENTENTE 2022**, November 2022.
- **Rosy Chadha, G Shreyan Shalom**, Vivek Kumar Anand; Agam Goel,"A Study on Exploit Development", 2022 7th International Conference on Computing, Communication and Security (ICCCS), [10.1109/ICCCS55188.2022.10079387](https://doi.org/10.1109/ICCCS55188.2022.10079387)
- **Vivek Kumar Anand, Karunesh, Bamanjogi**, Aryan Raj Shaw; Mahak Faheem, "Comparative Study of Ransomwares",2022 7th International Conference on Computing, Communication and Security (ICCCS), [10.1109/ICCCS55188.2022.10079369](https://doi.org/10.1109/ICCCS55188.2022.10079369)
- **Md Yusuf Khalil, Vivek Kumar Anand, Antarlina Paul, Rahul Grover**, "PDF Malware Analysis", 2022 7th International Conference on Computing, Communication and Security (ICCCS), [10.1109/ICCCS55188.2022.10079419](https://doi.org/10.1109/ICCCS55188.2022.10079419)
- **L. Gomathi, Anand Kumar Mishra, Amit Kumar Tyagi** "Industry 5.0 for Healthcare 5.0: Opportunities, Challenges and Future Research Possibilities", April 2023, 7th International Conference on Trends in Electronics and Informatics (ICOEI 2023), [10.1109/ICOEI56765.2023.10125660](https://doi.org/10.1109/ICOEI56765.2023.10125660)



## **Awards and Achievements**

**T Arun, K Mishra, D Chauhan, P Singh, G W Fancon, A Kumar, Runner's up position in National Grand Finale of Smart India hackathon 2022**, held at Sathyabama Institute of Science and Technology, Chennai. Mentors: **S. Sanyal** and **R Dangwal**.

**Dr APJ Abdul Kalam Lifetime Achievement Award by the National Institute of Socio-Economic Development (NISED)** -Dr Ganapthirao Maradana was awarded the Dr APJ Abdul Kalam Lifetime Achievement Award by the National Institute of Socio-Economic Development (NISED) for remarkable achievements in the field of Teaching, Research and Publications. NISED is a non-governmental organisation set up by Dr H V Shivappa, former Economic Advisor, NITI Aayog, Government of India. The award presentation took place in Bangalore on October 31, 2021.

### **Prof. Surinder Singh Delivered a Talk**

On 16th July 2022, JIMS, Kalkaji organized a guest lecture on “Cyber Security, a Complete Solution of Cyber Crime” for students of PGDM and PGDM (IB) 2022-24.

Dr. Navneet Gera felicitated Mr. Surinder Singh with the “Guest of Honour” memento which brought the session to a close.

## 15. Students' Achievements

S. No.	Student (s) Name	Achievement(s)
1.	Dishank Kalra, Akshat Jain, Varun Bisht & Prof. Ratna Sanyal	Won the First Prize in the 11th Project Innovation Contest 2022, 18 <sup>th</sup> International Conference on Distributed Computing & Intelligent Technology, KIIT Bhubaneswar, Odisha on 22 <sup>nd</sup> January 2022. The topic was "Analysis of student's performance from Chat transcripts and online discussion".
2.	Abhilash Bhowmik, Siddhant Sharma, and Prof. Ratna Sanyal	Won the Best Paper Award in NUClearCSE 2022.
3.	Kumar Abhi	Did outstanding Social Work as part of Sahayata Relief Fund, an initiative by students during the pandemic.
4.	Jeel Dharmesh Shah	Secured admission at Carnegie Mellon University (Pittsburgh, Pennsylvania, USA) for Masters in Artificial Intelligence and Innovation

## 16. Co-Curricular & Extra-Curricular Activities

Cultural Events and festivals are celebrated every year with much fervour and enthusiasm at NU. Throughout the year, various competitions like Rangoli Competition, Kite-Flying Competition, Mobile Photo Competition, Face Painting Competition, Water Colour Painting Competition, Inter House Chess Tournament, NUPL Season 12, the Cricket League of NU and Street Plays were organised with high spirits and fun. The activities such as Resonance- the Head-Start Programme, Celebration of Republic Day, Independence Day & Teachers Day, overnight Adventure Camp, Painting Workshop, Blood Donation Camp, etc. kept the campus buzzing with life and energy. The intellectual activities like Business Quiz, India Quiz, Environment Quiz, Inter-House Debate Competition, and Public Speaking Seminars were also conducted. Dance and Music classes are held on regular basis.

**Details of Sports Activities during March 2022 – March 2023 are given below.**

**Competitions inside the NU**

<b>SR. NO.</b>	<b>DATE</b>	<b>NAME OF THE ACTIVITY</b>	<b>WINNER (HOUSE/BATCH)</b>	<b>RUNNER-UP (HOUSE/BATCH)</b>
<b>1</b>	26.08.22 to 01.10.22	Inter Batch Volleyball	BTech III Year	BTech IV Year
<b>2</b>	24.09.22 to 25.09.22	Inter Batch Powerlifting (W) (Open Category)	Anushka Khuswaha (BTech I Year)	Archa Dave (BTech IV Year)
<b>3</b>	24.09.22 to 25.09.22	Inter Batch Powerlifting (M) (Master-I Category)	Abhinendra Yadav (BTech II Year)	Parth Pahwa (BTech I Year)
<b>4</b>	24.09.22 to 25.09.22	Inter Batch Powerlifting (M) (Master-II Category)	Indrajit Borborah (Axis Bank Batch)	Suneet Gulia (Axis Bank Batch)
<b>5</b>	24.09.22 to 25.09.22	Inter Batch Powerlifting (M) (Master-III Category)	Shubham (IMBA I Year)	Arnav Borthakur (Axis Bank Batch)
<b>6</b>	24.09.22 to 25.09.22	Inter Batch Powerlifting (M) (Master-IV Category)	Prarit Mehta (BTech III Year)	Yash Shinde (BTech II Year)
<b>7</b>	24.09.22 to 25.09.22	Inter Batch Powerlifting (M) (Open Category)	Abhi Jain (BTech IV Year)	Keshav Mital (BTech IV Year)
<b>8</b>	10.10.22 to 11.10.22	Inter Batch Chess Competition	BTech II Year	BTech III Year

<b>9</b>	10.10.22 to 11.10.22	Inter Batch Basketball Competition	BTech IV Year	BTech III Year
<b>10</b>	24.10.23 to 31.10.22	Inter house Football Competition	Orange House	White House
<b>11</b>	08.11.22 to 08.12.22	NUPL (Cricket League)	RCB	DC
<b>12</b>	12.11.22	Sinusoid All-Stars (Cricket)	Team East	Team West
<b>13</b>	19.11.22	Sinusoid Chess Tournament	Atharv Dhoot (BTech III year)	Sobham Panja (BTech III year)
<b>14</b>	14.11.22 to 30.11.22	Inter Batch Cricket Competition	B. Tech. IV Year	B. Tech. II Year
<b>15</b>	20.11.22 to 28.11.22	Inter Batch Kabaddi Competition	BTech III Year (A-team)	BTech III Year (B-team)
<b>16</b>	24.11.22 to 26.11.22	NU Pool Tournament	Kneegross	Chainsmokers
<b>17</b>	28.01.23 to 29.01.23	GAMERS Club Chess Tournament	Atharv Dhoot (BTech III year)	Kaustab karan (BTech I year)
<b>18</b>	28.01.23 to 29.01.23	Inter Batch Table Tennis	BTech I Year and IMBA I Year  (Joyee Hriday, Ishvit, Aastha, Arpit)	BTech III Year  (Parth Madaan , Sakshi Jain)
<b>19</b>	17.02.23 to 19.02.23	Cricket Inter-House Competition	White House	Orange House
<b>20</b>	20.02.23 to 22.02.23	Badminton Inter House Competition	White House	Green House
<b>21</b>	22.02.23 to 24.02.23	Basketball Inter House Competition	Orange House	Green House

<b>22</b>	25.02.23 to 26.02.23	Inter House Table Tennis	Orange House	Green House
<b>23</b>	25.02.23 to 26.02.23	Inter House Chess Tournament	White House	Green House
<b>24</b>	26.02.23	Inter House Athletics Meet	White House	Orange House
<b>25</b>	12.03.23 to 05.04.23	NUKL	Ongoing	-
<b>26</b>	16.03.23 to 18.03.23	Inter House Volleyball	Ongoing	-
<b>27</b>	14.03.23 to 09.04.23	NUPL'16	Ongoing	-
<b>28</b>	10.04.23 to 12.04.23	Inter House Kabaddi	Pending	-
<b>29</b>	27.02.23 to 21.03.23	Futsal	Ongoing	
<b>30</b>	TBH	Ingenuity All stars(Cricket)	Pending	-
<b>31</b>	TBH	Ingenuity All stars(Kabaddi)	Pending	
<b>32</b>	TBH	Ingenuity All stars(Volleyball)	Pending	-

**NU students` participation in events outside NU**

Sr. No.	Date	Name of the Activity	
1	13.03.22	Neemrana Marathon	12 students participated
2	08.05.22	“Wings for life”, Red bull Marathon	16 students participated
3	04.11.22 to 06.11.22	Sports meet at BML Munjal University, Dharuhera	Basketball (M/W), Table Tennis(M/W), Badminton(M/W)

**University has got 1x silver Medal (2nd Position) in Table Tennis (women’s) in the Sports Fest held from 4<sup>th</sup> to 6<sup>th</sup> November 2022 at BML Munjal University.**

**List of the winners are as follow:**

S.No	Enroll No.	Name	Programme	Event
1	BT19GCS019	Selina Goel (W)	B.Tech IV year	Table Tennis
2	IM22GMG077	Joyee Hriday (W)	IMBA I year	Table Tennis
3	BT22GCS074	Chhavi Sharma (W)	B.Tech I year	Table Tennis

## 17. Challenges Ahead

The University has made progress in all aspects and is committed on its journey to excel. The core principles of the University propels the entire community of students , faculty and staff to be responsible citizens who can positively bring about a change and contribute towards sustainable development. The fast-changing technology and business requirements reinforces the need to be more adaptable in designing the curriculum and delivering to the students. The new age skills such as Cyber Security, Analytics, Artificial Intelligence etc combined with the essential areas like sustainable development, ethics, environment, public policy are a tricky combination and has to be carefully handled.

### CONTACTS

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