

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

Annual Report
NIIT University, 2021-2022

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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

Be a role model of learning, research, innovation and sustainability for a 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. Eleventh Convocation Ceremony

The NIIT University marked its 11th Convocation Ceremony on 09th of October 2021. However, due to the prevailing pandemic situation, the event was conducted virtually.

The Chief Guest for the occasion was Dr. Arunabha Ghosh, Chief Executive Officer, Council on Energy, Environment and Water (CEEW). Total 264 students from different programmes graduated on this occasion. 167 students were awarded Bachelor of Technology degree, 07 - Master of Technology degree, 05- Master of Science (Integrated) in Computer Science, 83- Master of Business Administration degree {60-MBA (IDS), 20 MBA (BA), 03 MBA (NIIT Ltd.)} and 02 students were awarded the degree of Doctor of Philosophy.

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

1	Neeharika Gupta	B. Tech. 2017-2021	4	Ankita Gupta	M.Tech ET 2019-2021
2	Nishita Agarwal	M.Sc. CS 2017-2021	5	Sangita Nandan	MBA Gen 2018-2021
3	Soumik Chakraborty	M.Tech GIS 2019-2021	6	Vaibhav Taneja	MBA IDS 2019-2021

The Ram Rajindra Malhotra Medal-2021 was awarded to Pragya Datt (B.Tech:2017-2021) for overall all-round performance.

5. Thirteenth Annual Lecture

The year 2009 marked a significant event with the notification of the NIIT University (NU) by the Government of Rajasthan. This historic event was celebrated on November 15, 2009, when Dr Karan Singh, Chairperson, NU delivered the ‘First Lecture’ at the University campus in Neemrana.

Annual Lecture has since become a tradition at NU.

In continuation to this tradition, Mr K V Kamath, Former President, New Development Bank has delivered the ‘Thirteenth Lecture’ on Saturday, 20 November 2021 virtually. The topic of the lecture was “Digital India, Digital Currencies and Economic Growth”. The event was conducted virtually and was attended by NUtons, NURturers, industry experts, BOM Members and guests.

6. Awards

Award to NU at International Conference on Restore our Earth (ICORE):

NU received recognition (Winners) for the efforts made towards sustainability through activities like plantation, waste management and Earth Air-Tunnels etc. in the **International Conference on Restore our Earth (ICORE)** organized by PG & Department of Environmental Sciences, **Bishop Heber College**, Tamil Nadu, during 21st and 22nd April 2021 A video compiled showcasing the NU activities was also played during the valedictory function of the conference. The conference was planned in commemoration of World Earth Day 2021.

7. Academic Programmes and improvements and Innovations in curricula and teaching-learning

The Center of Excellence in Educational Technology (CoEET)

The Educational Technology Area at NIIT University, through the Educational Technology Innovation Center (ETIC) has been implementing pedagogic innovations using industry-linked projects. This is best demonstrated through the Nano-EPL and Math-Machine Learning based projects, to name a few, all of which are implemented by the students at NU. Given the intense industry-oriented student engagements that these pedagogic initiatives opened up, it became necessary to have a vehicle which would facilitate the implementation of such projects.

The Center of Excellence in Educational Technology (CoEET) is a student body that is responsible for the planning, coordination and execution of all Educational Technology projects at NU. The team composition includes three students from 3rd Year and three from 2nd Year as Teaching Assistants for six key roles. Additionally, three 1st Year students are selected for the role of Learning Assistants. All students are invited to apply for this prestigious group and through a transparent and rigorous selection

system, fair representation is ensured to all streams of study at NU – Computer Science, Biotechnology, IMBA, etc. Each role carries a Stipend and a certificate of Mentorship for the duration of the tenure.

The CoEET currently comprises the following key roles:

- Project & Systems Desk
- Digital Repository & Technology Desk
- Research & Planning Desk
- Learning & Pedagogy Desk
- Mentoring & Extension Education Desk
- Industry Collaboration & Analytics Desk
- Learning Assistants

The CoEET also manages an online repository – the ETIC Portal - designed to help students as well as Professors by providing access to data on projects done earlier by NU students. The ETIC portal hosts all the resources required to prepare for the projects under the Additive Curriculum approach. These resources provide significant information on how a project should be executed and serve as a benchmark for students.

8. Students on Roll till March 2022

Programme	Batch	M	F	Total
B.Tech.	2015	1	0	1
B.Tech.	2017	15	0	15
B.Tech.	2018	143	38	181
B.Tech.	2019	107	38	145
B.Tech. Jul	2020	131	38	169
B.Tech. Jan	2021	6	0	6
B.Tech. Jul	2021	81	43	124
B.Tech. Jan	2022	0	2	2
BBA	2021	1	0	1
IMBA	2018	18	6	24
IMBA	2019	17	11	28
IMBA	2020	13	14	27
IMBA	2021	17	15	32
MBA (NIIT)	Jul, 2018	3	0	3
MBA ISDE	Oct, 2021	27	4	31
M.Sc. (CS)	2019	5	1	6
M.Sc. (CS)	2020	2	0	2
M. Tech. GIS	Jul, 2020	2	0	2
M. Tech. GIS	Jan, 2021	1	0	1

M. Tech. CS	Jan, 2021	52	9	61
M. Tech. CS	Jan, 2022	41	11	52
M.Tech. ET	Jan, 2020	0	1	1
M.Tech. ET	Jul, 2020	0	2	2
M.Tech. ET	Jan, 2022	2	0	2
PGDBRM	Nov, 2020	4	0	4
PGDBRM	May, 2021	41	13	54
PGDBRM	Oct, 2021	76	34	110
Ph.D. ECE	Jan, 2014	1	0	1
Ph.D. ECE	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
Total		817	286	1103

9. Community Connect Programme

Community Connect programme is a flagship programme of NIIT University to support our neighboring communities to improve their lifestyle, level of education, health and creating awareness. This program has been continuously engaging the NU family with local communities since the inception of the University. NU has received support and appreciation from the local communities in all its endeavors in the past decade. There has been greater demand to engage and work with the communities from the local population as well as NU family. In the academic year 2021-2022, still adhering to COVID-19 protocols, we had to restrict the students and teachers to reach the communities personally. Consequently, the University took advantage of the current technology to make Community Connect possible and sustainable. This programme is being conducted in the form of an audit course over two semesters with course NU 111 and NU112. In first semester, students of undergraduate programme 2021 were given a project to make action plan for improvement of socio-economic life of community.

The purpose of this project is to connect the university with the schools located in Neemrana and its vicinity. The project will focus on government schools with focus on play schools, primary schools, junior high schools, and senior secondary schools. The registered students of NU 111 (Community Connect) are encouraged to mentor these school students and maintain continuous communication in person and virtual as the situation demands.

The project exposes students about the real-life changes of society and school education in India. Students will get experience and first-hand information while working with local people to resolve the problem as per the available resources. Though, our focus is on government school, but we don't wish to miss learning opportunities from private schools as well. The community connect course aims to develop analytical, presentation and communication skills of registered students of NU 111. The project will explore working solution for contemporary issues and challenges faced in school education in Neemrana.

The project will recommend most suitable way of education delivery to maintain Gross Enrollment Ratio (GER) of government school to serve poor population. The goal of the project is to suggest action plan for the improvement of socio-economic environment of Indian population by connecting Campus to Community (C2C). The project will lead to improve the overall environment and living conditions of people residing in Neemrana. In the second semester of the 2021 batch, the students were engaged with relatively well-known people known for their contributions to society because of this course.

10. 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	14913
2	Bound Volumes of Journals	342
3	Audio & Video Resources	1298
4	Thesis (NU Ph.D.)	8

Details of LIRC Resources

- **EBSCO Business Source Elite** – 1000+ management journals and magazines, 3000+ Management concepts summaries, news wire collection worldwide presses and 25 classic eBooks. It provides access to the following peer-reviewed full-text journals:

Indexed in Scopus: **304**

indexed in Web of Science: **240**

- **CMIE Prowess IQ** - Database of Listed and unlisted companies.

a. Knowledge Dissemination Cell

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 about the contemporary developments throughout the year.

b. 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 print resources of 3,50,00,000+ on demand. Its discovery tool provides access to bibliographical data of all libraries along with thousands of full-text e-contents.

c. 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 of 81,761,152 crores e-contents which include theses, articles, audio lectures, video lectures, books, etc.

d. 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.

e. Shodhganga : A reservoir of Indian thesis

NU LIRC is member of Shodhganga. It provides access to 35609 theses. Ph.D.

f. E-ShodhSindhu: Consortium for Higher Education Electronics

NU LIRC is a member of the E-ShodhSindhu consortium. ESS provides negotiated rates for selected e-journals, e-books, and online databases for subscription/renewal to registered members.

g. Shodh Suddhi

It Provides access to Plagiarism Detection Software: URKUND (Renamed as 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.

h. INFLIBNET Access Management Federation (INFED)

NU LIRC became a member of INFED during a pandemic. It has successfully implemented "Shibboleth" remote access tool. Now, NU users will be able to access subscribed e-contents remotely. This tool will be introduced very soon.

i. INFLIBNET Learning Management System (Moodle)

NU Library has also implemented INFLIBNET's Learning Management System. Very soon, NU users will be able to access ePG Pathshala e-contents through this learning management system.

j. Turnitin

User awareness and information literacy

Workshop / Webinar organized by LIRC		
Sn	Particular	Date
1.	Dr. Vinay Kumar Kainthola was invited as a panelist in the webinar on "Effective E-Learning through Moodle: An open-source Learning Platform by DELNET (a Network of more than 7277 libraries)	Jun. 28, 2021
2.	Dr. Vinay Kumar Kainthola was invited for a librarian's experience talk by BML Munjal University	Aug. 12, 2021
3.	Orientation workshop for B. Tech and iMBA students_7 Sept 2021	Sep. 7, 2021
4.	Orientation workshop on Turnitin: A introduction of its basic features (Webinar)	Nov. 13, 2021
5.	Workshop on CMIE Prowess IQ for students (Webinar)	Nov. 26, 2021
6.	Workshop on Use of Turnitin Similarity: Precautions while writing (Webinar)	Feb. 03, 2022
7.	Workshop on IEEE reference style (Webinar)	Mar. 14, 2022
8.	Workshop on IEEE reference style (Webinar)	Mar. 15 2022

Training and Development

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

11. Workshops & Events

- A. The 'Times of India', Delhi edition of June 23rd, 2021, published the article under the 'Ignite Your Career' section, which included valuable insights from Mr. Rajendra Pawar, Chairman of NIIT Group.

Mr. Rudramani B., Former Head, Dell R&D Centre, Bangalore, too supported the points given by Mr. Pawar. He also added how the development of networks where interaction among social groups and colleagues and the passing of knowledge can be highly beneficial in the long run. Mr. Abhimanyu Saxena, Co-Founder, Scaler Academy focused on the need for mentors to guide an individual throughout one's journey. He also applauded the availability of resources on the internet that enhances learning. However, the lack of awareness by tier-II and tier-III is still a concern.

B. Initiation of UTKARSH FELLOWSHIP in remembrance of Late Utkarsh Verma

The “UTKARSH Fellowship” is an initiative at NIIT University for the batch of 2019 students this year to celebrate, and carry the legacy of late NUton Utkarsh Verma (B.Tech. CSE, 2010-14) forward. The Fellowship was initiated by Dr. Neena Verma and Mr. Yogesh Verma, the Parents of the late Utkarsh Verma. The Fellowship is set up to endeavor and for celebrating the non-scholastic genius of a student and to recognize and honor a NUton with non-conventional skills, exceptional depth on wide-ranging topics, and issues beyond the scholastic curriculum. The Fellowship has been set up to be funded by the UTKARSH Endowment Fund which was set up at NU by the Parents of the late Utkarsh Verma.

The Fellowship will be awarded every year to one deserving student from among the third-year students, through specific selection criteria based on the student’s performance. It consists of a cash award of Rs 24,000/-, a Citation, and a Rolling “UTKARSH Legacy Plaque”. A “UTKARSH Reading Alcove” has also been set up at NU Library with books donated by the Parents of the late Utkarsh Verma which will continue every year. This initiative has been very helpful and has encouraged everyone in the university to perform better.

C. Webinars:

- i. On June 12, 2021, a live webinar was held by NIIT University featuring renowned researcher and Chief Scientist-World Health Organisation (WHO), **Dr. Soumya Swaminathan** on the topic of ‘**Covid and You**’. Dr. Swaminathan is an Indian pediatrician and clinical researcher known for her research on tuberculosis and HIV. Since March 2019, Dr. Swaminathan has served as the Chief Scientist at the WHO. During the webinar, Dr. Swaminathan discussed the impact that the Covid pandemic has had so far and the various details and actions it has brought upon importance. Providing a basic explanation of how viruses have adapted and spread throughout history, Dr. Swaminathan discussed the actions of various countries against the pandemic and the way the world has responded to the situations, both in the past and present. She explained how viruses and infections might increase with rapid changes in human, animal, and environmental sectors and how people need to start monitoring, learning, and working towards research.
- ii. An online Invited Talk on “Biotechnology as a Career- Reality vs Expectation” by **Dr Jyoti Balhara** was organized at 9:00 AM on November 19, 2021. Dr Jyoti Balhara is a Regulatory/Medical Affairs Professional from Canada. She did her MSc (2012) and PhD (2016) in Immunology at the University of Manitoba and has several publications in Asthma.

D. Entente 2021: International Conference by NIIT University:

Entente 2021 is an International Conference based on Humanities, Social Sciences, Management and Education organised by NIIT University from October 28-31, 2021. The events planned for the conference included Research Paper Presentation, Poster Presentation, Workshops and Panel Discussions. The objective of this conference was to encourage academicians, students, experts, policy makers, professionals etc. to research about existing problems and solutions. It is aimed at bridging the gap between academic wisdom and industry practice. All participants were to register for the event prior to submission of the paper/poster.

The themes for the conference were:

- Language and Literature
- Social Science
- Management and Allied Fields
- Education and Allied Fields

The important dates were as follows:

September 1, 2021	Early Bird Registration (10% Discount)
October 25, 2021	Regular Registration
September 30, 2021	Full Paper Submission
October 28-30, 2021	Conference Date

The Patrons for the event were Prof. Rajesh Khanna, President, NIIT University and Prof. Parimal Mandke, Vice President, NIIT University. The Convenors of the event were Prof. Vijay Vasantrao Mandke, Dr. Vaishali Jayaprakash Shinde and Dr. Sushil Kalyani. Prof. Gurendra Nath Bharadwaj, Dr. Yogendra Pal and Dr. Chandan Medatwal were the Organising Secretaries for the conference.

E. Artist in Residence

The Rangmanch club of NU organised Artist in Residence and invited Ms Shilpi Marwaha for a Theatre Workshop of 2 days, April 14-15, 2022. Many students participated in the Theatre Workshop where they learnt nuances of street theatre.

The following activities were conducted:

- i. Space exercises-
- ii. Mirroring
- iii. Voice Throw
- iv. Shavasana
- v. Panchatantra story Enactments
- vi. Nukkad
- vii. Speech Exercise with Savasana
- viii. Theatre Street Play Discussion
- ix. Mental Health Discussion
- x. Walking Exercise
- xi. Speech Followed by Enactment Exercise
- xii. Breathing Exercises
- xiii. Running to increase stamina
- xiv. Diction and speech

F. Educational Activities Organized by NU :

i. Learn from Masters (LFM) Series

a. 'COVID and YOU' by Dr. Soumya Swaminathan

On June 12, 2021, a live webinar was held by renowned researcher and Chief Scientist-World Health Organisation (WHO), Dr. Soumya Swaminathan on the topic of 'Covid and You'. Dr. Swaminathan is an Indian paediatrician and clinical researcher known for her research on tuberculosis and HIV. Since March 2019, Dr. Swaminathan has served as the Chief Scientist at the WHO.

During the webinar, Dr. Swaminathan discussed the impact that the Covid pandemic has had globally so far. Providing a basic explanation of how viruses have adapted and spread throughout history, Dr. Swaminathan discussed the actions of various countries against the pandemic and the way the world has responded to the situations, both in the past and present. She explained how viruses and infections might increase with rapid changes in human, animal, and environmental sectors and how people need to start monitoring, learning, and working towards research. She discussed the importance of data and people's support in medical learning and analysis.

b. 'Digital Success - A Reengineering Approach' Lecture Series by Dr. Ganesh Natarajan

A lecture series consisting of 5 sessions was hosted by NIIT University. Dr. Ganesh Natarajan, an Executive Chairman and Founder of 5F World, a platform for Digital

Start-ups and Skills and Social Ventures in the country and Co-Founder of Global Talent Track, Skills Alpha, and Lighthouse Communities Foundation, and two Indo-US Joint Ventures – Kalzoom Advisors and the Centre for AI and Advanced Analytics.

The first lecture of the series was delivered on June 2nd, 2021. In this lecture, Dr. Natarajan and his colleagues highlighted different aspects of succeeding in the digital space from the enterprise point of view and how industries transformed with the emerging digital business models.

The second lecture was on June 10th, 2021, on the topic, ‘The Technologies and Process of Digitally Savvy Organisations’. It focused on the emerging technologies, their impact on the industries’ business models, and the processes that were followed by the digital savvy organizations.

The third lecture was delivered on June 17th, 2021, on the topic ‘Design Thinking and Customer Journeys’. This lecture was conducted in a flipped model. Dr. Natarajan summarised a bunch of slides that described how Design Thinking is important for business ideas. He also focused on customer values. At the end of the session, a question-and-answer session was conducted.

The fourth lecture was delivered on June 23rd, 2021, in which Dr. Natarajan talked about cultures and employee journeys for the topic ‘Employee Journeys, Skills and Cultures’. He talked about the ways to improve the work culture and employee journeys where a curated learning process can be created. This will help the employees become better with new skills. He also talked about how AI can play a role in this process.

The fifth and final lecture of the Series was, a synthesis of the previous four lectures and was delivered on June 28th, 2021 on the topic ‘Organisation Reconfiguration, Innovation and Success Pathways’ where he described ways of reconfiguring the system and innovating to create a future-ready success path keeping in mind the impact of the COVID-19 pandemic.

c. India’s Economic Development in post-Independence period by Mr. Montek Singh Ahluwalia, Former Deputy Chairman, Planning Commission

The Lecture Series by Mr Montek Singh Ahluwalia was started from 10th March 2021. The lecture series includes 10 lectures on various topics of Indian Economics.

In the fourth lecture on 22nd May 2021 was delivered on Climate Change Challenges, he explained the challenges and repercussions of the climate change worldwide and suggested how to achieve net zero target for carbon di oxide and other greenhouse gases.

The fifth lecture was on 5th June on “The Problem of Finding the Resources for Public Programmes”. He suggested that Indian government need to spend more on health

sector as the pandemic is an eye-opening situation for the entire world. Also, on education sector and infrastructure particularly in rural areas are the significant areas where Government should invest more. He suggested the ways to generate more revenues which can be utilized for the development of mentioned sector.

The sixth lecture of the series was held on 17th July and was on India's Health Challenges. He talked about various measures to understand the development of India in health sector since independence, like phenomenal increment in the life expectancy, deceased mortality rate and maternal mortality. He also explained where India stands in health sector as compared to other countries. He also suggested the ways to make more improvements in health sector.

The seventh lecture of the series was on Education and Skill Development held on 7th August 2021. He introduced the issues related to school education, technical education, and university education. He discussed about the funding mode by private and public sector for education and made suggestions for improvement.

The eighth interactive session was on Finding money to fund India's Growth held on 21st August 2021. Mr Ahluwalia suggested various sources of funding, and how to explore new sources and ideas to generate more wealth and prosperity for individuals and for the nation as well.

The ninth lecture of the series, held on 18th September 2021, on Livelihoods, Employment and Future of Work. Mr. Ahluwalia discussed about various upcoming employment opportunities and the future of work in India.

The tenth lecture of the series was held on 16th October 2021 on Climate Change: What can I do to save the Planet? This was the last lecture of the Series. In this lecture Mr. Ahluwalia suggested various methods of environment sustainability and what individuals can do to save the Planet. He emphasized on development of renewable energy sources.

The eleventh lecture of the Series by Mr. Ahluwalia was held on 15th January 2022 on Climate Change: Outcome of COP 26 Meeting. This was the last lecture of the Series. In this lecture, Mr. Ahluwalia discussed the outcomes of the Conference of Parties, COP 26, which was held in Glasgow in November 2021. He talked about the timelines and strategies that different countries of the world are going to apply to achieve the target of net-zero carbon emission. He also discussed the negotiation made by India in the COP 26 meeting for achieving the target of net-zero carbon emission. He suggested that India should focus on research and development in the field of renewable power resources and should make necessary changes in the policies related to the combustion engine, to control carbon emission.

d. “Reflections on Chemistry and Biology in the Age of the Coronavirus” by Prof. P. Balaram

Prof. P. Balaram, Padma Bhushan awardee and Former Director, IISc - *Bangalore*, delivered a live webinar on the topic “Reflections on Chemistry and Biology in the Age of the Coronavirus”, part of the ongoing “*Learn from Masters*” Series organized by NIIT University on July 3rd, 2021. Introduction of the speaker was done by Professor Ashok Misra, NASI Distinguished Professor, Indian Institute of Science, Bangalore, who was also a part of the panel along with other eminent invitees.

This “Learn from Masters” Series interactive webinar was conducted on Zoom and telecasted live on Youtube with over 200 participants. Prof Balaram has also expressed his interest in the following areas:

- a. Interactive online session with NU students from the Biotechnology area.
- b. Conduct special online classes in Proteomics and structural biology for NU students from the Biotechnology area.
- c. Deliver lectures on History of Science in the Asian Lens Forum, NU.

e. Talk by Mr. Ajay Prakash Sawhney, Secretary, Ministry of Electronics and Information Technology, Government of India:

A talk on the topic ‘Cybersecurity in India’ by Mr. Ajay Prakash Sawhney, Secretary, Ministry of Electronics and Information Technology, Government of India, was held on Saturday, 22nd January 2022 through virtual mode. During the talk, Mr. Sawhney explained how India is planning to have its own Cybersecurity infrastructure to secure against various cyber-attacks that are taking place. He also stressed upon the involvement of academic as well as industry fraternities and urged them to play an active role in this area. The talk was attended by eminent Board Members of NIIT University, Faculty, Students, Alumni, and other guests.

f. International Conference - NUclearCSE-2022 – 20th - 22nd January 2022

NUclearCSE-2022 was intended to bring together leading professors, scientists, researchers, and doctoral scholars from different areas to exchange and share their experiences, learning, outreach, and research results of their respective fields of ECE – GIS - CSE. This conference seamlessly covered - NextGen Networks & Edge Computing, Artificial Intelligence, Geospatial Information and GIS, AI-Prof.

Six Invited Speakers addressed the Conference :

- Prof. (Dr.) Sugata Mitra, Former Professor, Newcastle University, UK. Chief Scientist, and Emeritus Professors of NIIT University, Topic: Synthetic Psychology: putting minds into machines
- Prof. (Dr.) Rajeev Shorey, CEO, University of Queensland - IIT Delhi Academy of Research (UQIDAR) and former President of NIIT University, Topic: Recent Investigations in Machine Learning & Edge Computing
- Prof. (Dr.) Koo Voon Chet, Professor, Engineering and Technology, Multimedia University, Malaysia, Topic: Remote Sensing 4.0
- Dr. M. B. Rajani, Professor, National Institute of Advanced Studies (NIAS), Bangalore. Founder member of NU GIS team, Fellow of Nalanda University, Guest Faculty of IIT Gandhinagar, Topic: Patterns in Past Settlements: Geospatial Analysis of Imprints of Cultural Heritage on Landscapes
- Dr. Hari Shanker Srivastava, Scientist/Engineer - SG, & Group Head, PPEG, IIRS (Indian Space Research Organization, Dehradun, Topic: Fundamentals and Applications of Radar Remote Sensing.
- Dr. Rathi Dasgupta: Senior Vice President, Intelliswift, Chicago, Illinois, USA, Topic: An overview of Dimensionality Regularization and its applications.

33 Accepted Papers: (30 National + 03 International) from 19 Institutes / Universities:

NIIT University; Suresh Gyan Vihar University, Jaipur; AKS University, Satna; Sharda University, Greater Noida; CSIR-National Botanical Research Institute, Lucknow; Rajeev Gandhi Memorial College of Engg. & Tech. Andhra Pradesh; Central University of Karnataka; The Gandhigram Rural Institute; Galgotias University; Manipal University, Jaipur; Independent Researcher, India; Dept. of Geography Shivaji University, Kolhapur Maharashtra; National Commodities management services limited, Hyderabad; Lendi Institute of Engineering and Technology; Indian Institute of Technology , Roorkee; National Institute of Hydrology, Andhra Pradesh; University of Allahabad; Iranian Space Research Center, Iran; Multimedia University, Malaysia.

Session Chairs & Co-Chairs:

- Dr. Heng-Siong Lim, Dy Director, Research Mgmt. Centre; Prof. Multimedia University, Malaysia.
- Prof. Debashis Ghosh, IIT Roorkee, India
- Dr. George Philip, Retd. Scientist-G (Group Head), Wadia Institute of Himalayan Geology
- Dr. Abhrankash Kanungo, Scientist-SD, Andhra Pradesh Space Applications Centre
- Dr. Hari Shanker Srivastava, Scientist-SG & Gr. Head, Indian Institute of Remote Sensing, ISRO

- Dr. Mustafa Üstüner, Dept. of Architecture and City Planning, Artvin Coruh University, Turkey
- Dr. Parimala N, Professor, School of Computer & Systems Sciences, JNU, Delhi
- Dr. Prosenjit Gupta, Professor, Heritage Institute of Technology and NU.

G. ILP : NU-Infosys MTECH Cybersecurity

The second batch of NU-Infosys M. Tech. Cybersecurity, 52 students started 1st semester from 10th January 2022.

H. NU-ICICI Certificate on Digital Banking Programme: [PRISM]

CSE Area offered 12-week programme (**PRISM**) for 38 ICICI professionals starting 6th Dec'21, to enhance technology knowledge and hands-on Skills development in five important BFSI and FinTech areas like (1) DevOps, (2) SQL and PL/SQL and WebLogic Server, (3) Data Engineering, (4) Cloud Computing (5) API and Microservices.

I. NU CSE Cybersecurity Drive:

NU CSE Area conducted First International Workshop (online) on 'THREAT PROTECTION AND CYBERSECURITY CHALLENGES-2022' using NU industry-academia collaboration with DSCI, EC-Council, Cisco Net Academy and IBM. The first workshop was held on 18th February 2022.

J. TEDxNIITUniversity 2021: The event was held on 26th June in a virtual mode. Following speakers participated:

- Col. Ajai Lal (Leadership and Executive Coach, Chief Business Officer, NIIT Ltd).
- Mr. Avinash Singh Alagh (Motivational Speaker, Lifestyle Coach).
- Mr. Aabir Vyas (Content Creator, Aspiring Comic).
- Ms. Vanndana Vaadera (Ex-RJ, Lifestyle Coach, Pageant Coach).
- Ms. Daizy Batra (Fashion, Lifestyle, Travel and Beauty Blogger).
- Mr. Richie Mehta (Writer & Director, Emmy holder for the Netflix Series: 'Delhi Crime', highlighting the investigation of the infamous Nirbhaya Rape Case).

Three performers on the occasion included:

- Mr. Anirban Bhattacharyya (Hindustani Classical Vocalist, Ethnomusicologist).

- Mr. Abhash Jha (Writer, Poet, Storyteller).
- Mr. Santhanam Srinivasan Iyer (Musician, Vocalist, Genre: Indian Hip-Hop).

K. World Environment Day was observed on 5th June. All available faculty and staff members planted one sapling each on this occasion. A quiz was also conducted on the occasion.

L. Consilio: NU Design Club : On June 5th, 2021, NIIT University welcomed a new club named 'Consilio-The Design Club'. Consilio is a platform created for all students, especially those who have an eye for learning and exploring the area of design. The club aims to provide students an environment where they can discover their interests in designing eminent concepts.

M. International Yoga Day: Conducted on 21st June with all faculty and staff members on the Campus. On conclusion of the exercise, a Pipal Tree, christened 'YOGA 2021' was planted together by all participants.

N. Van Mahotsav: Observed on the Campus on 28th July. All available faculty and staff members planted a sapling, christened 'VAN 2021'. Thereafter all members planted saplings on the barren slopes of Kali Pahadi.

O. 75th Independence Day: was celebrated on the Campus with faculty and staff. On this occasion 17 support staff members were presented awards for their exemplary contribution and dedicated work during the Pandemic.

P. HSBC and Resonance:

- HSBC**: Conducted virtually from 01 to 04 Sep. 144 students attended. Dr Sugata Mitra delivered a talk on "Perceptions of Self".
- Resonance**: Conducted virtually from 05 to 14 Sep. 161 students attended.

Invited Talks were delivered by:

1. Mr Som Mittal on Living on Campus – A life changing experience".
2. Ms Avani Davda shared her experiences and learnings from the leading iconic brand – Starbucks
3. Mr Kiran Karnik on "The Mind is a parachute. How to be counted amongst the Countless".
4. Prof (Dr) Koo Voon Chet on "Improving quality of life through smart sensing".
5. Ms Sanya Kapoor (Alumni) on Life @ NU Campus.

Q. SiNUsoidV5.0 Tech Fest: Conducted from 19 to 21 Nov. Highlights are given below:

- a. **Chief Guest** for the inauguration on 19 Nov was **Mr Aditya Arora**, a young (24 yrs) entrepreneur from Delhi and youngest Padma Shree awardee.
- b. **Events:** A total of 23 events were conducted, out of which 5 events were conducted pre-fest and 18 events were conducted on-fest.
- c. **On the Side Lines:**
 - i. Exciting club performance by four clubs – Dance, Music, Kavishala and Theatre clubs. Photography and Social Media clubs effectively covered the events.
 - ii. An enjoyable DJ Night on the final evening with DJ Tejas from Maharashtra.
 - iii. Games – Laser Tag and two theme based games – SQUID and Murder Mystery.
 - iv. Food stalls to provide a variety to the palate.
 - v. Excellent artwork on a very good theme and befitting decoration.
- d. Rangmanch staged a Hindi Play as a part of siNUsoid on 20th November 2021 named “Andher Nagri Chaupat Raja” written by Bharatendu Harishchandra.

R. Republic Day Celebrations: The Flag Hoisting was done by the President. On this occasion awards were presented to 19 support staff members who worked with dedication during the Pandemic. A short but lively performance was given by students present on the Campus. The event concluded by distribution of sweets packets to all present for the Celebrations.

S. TALF :

- Introduction to TALF by the Coordinator to the new students joined during the induction programme “Resonance” via online channel on 13th Sep. The session provided the first boot up for the new joinees regarding TALF as an organization and how and why to enroll.
- Two talks on “Heritage of Education in Ancient India” and "Indic concepts of sanitation and hygiene" by Ms. Sahana Singh on 15th Nov 2021. The sessions were done in two parts at the Auditorium. A third session on "Ecosystem of learning in Ancient India" was conducted at the Listening Tree on 16th Nov 2021.
- Heritage Walk to the historic city of Alwar on 12th March 2022.

12. Detailed List of 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
34	7	15	9	1	12

II. Number of papers published/accepted in peer reviewed journals & conferences (Students with faculty members): 7 Journal/Book Chapter + 5 in conferences

III. Ph.D. students (Area wise)

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

IV. On-Going Projects: None

Sr. No.	Project Title	PI Name	Agency	Project Sanction Amount (In Lakhs)	Project Starting Date

V. Publication Reward (Under Research Promotion Policy) - 33

Area	Rewards
Bio Technology	5
Computer Science	8
Electronics and Communication Engineering	3
Educational Technology	0
Geographical Information System	2
Mathematics and Basic Sciences	5
Management	8
Humanities & Social Science	2

VI. R & D project & Advanced R&D project

Total R&D projects were 64 for 186 students, which were completed in June 2021. Currently total number of R&D is 59 for 149 students. Total Advanced R&D project was 11, which were completed in December 2021. The outcome of R&D project and AR&D are shown in item no. II as: number of papers published/accepted in peer reviewed journals & conferences (Students with faculty members):

13. Distinguished Lecture Series

S.No.	Date	Name of the speakers	Name of the company/Institute/University	Topics covered
1	Wednesday, September 29, 2021	Shri Rajendra Singh	(Waterman of India)	We and Our Nature (Hum aur Hamari Prakriti)
2	Wednesday, September 29, 2021	Mr. Pradip Krishen	Indian filmmaker and environmentalist	Rewilding the Aravalli
3	Monday, November 15,	Ms. Sahana Singh	Engineer, Author, Editor and Commentator	Heritage of Education in

	2021			Ancient India
4	Monday, November 15, 2021	Ms. Sahana Singh	Engineer, Author, Editor and Commentator	Indic Concepts on Sanitation and Hygiene
5	Tuesday, November 16, 2021	Ms. Sahana Singh	Engineer, Author, Editor and Commentator	Ecosystem of Learning in Ancient India
6	Friday, November 19, 2021	Dr. Jyoti Balhara	Regulatory/Medical Affairs Professional from Canada	Biotechnology as a Career- Reality vs Expectation

14. Faculty/Staff Achievements

- Dr. Thota Shivasankar conducted a 2-day workshop on "Satellite Remote Sensing and GIS: Basic Concepts and Its Applications" organised jointly by NU GIS area and Department of Civil Engineering from JECRC from 31st May to 1st June with more than 450 participants.
- Dr. Gurendra Bhardwaj and Dr. Vinay Kainthola were panellists in the webinar on 'Effective E-Learning through Moodle: An Open-Source Learning Platform' conducted by DELNET on 28th June 2021. DELNET (Developing Library Network) is a network of 7227 libraries across India and abroad.
- Dr. Gaurav Gupta:- A Book Chapter on 'COVID-19 Pandemic Panic: Prophylactic as Well as Therapeutic Management with Traditional Ethnic Phytopharmaceuticals with Challenging Nano-spray Inhaler and Advanced Drug Delivery System' authored by Gaurav Gupta and co-authored by a Student, Amit Ladha, was published by Springer, Singapore and released online on 31 July 2021 in a book titled "Medical Plants for Lung Diseases".
- Prof. Vijay Mandke & Meera Datta- The book chapter "Data Science in Education" authored by them has been published in the book – Data Science and Its Applications by CRC Press (Routledge Taylor & Francis Group) Aug 2021
- Prof. Sugata Mitra, Emeritus Professor, has been appointed as "Member, Board of Trustees" of the Charity Montessori St Nicholas for a term of three years, w.e.f. September 2021. Montessori Group is a longstanding provider of quality Montessori

education offering training, partnerships, quality assurance, social impact and support for families and practitioners.

- Dr Ganapathirao Maradana awarded with Lifetime Achievement Award
Teachers have always been a great force behind driving humanity towards great innovations. They are some of the most hardworking and selfless people. In one of the proud moments of NIIT University, Dr Ganapathirao Maradana was awarded the Dr APJ Abdul Kalam Lifetime Achievement Award by the National Institute of Socio-Economic Development (NISED). The Award was given to Dr M Ganapathirao 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.
- Dr. Sanjay Kumar Biswash, Assistant Professor, CSE was granted a patent titled “An Integrated UMTS Wireless LAN System and Method for Location Management” and the same is recorded in the Register of Patents on the 26-Oct-2021 with Patent No. 380036.
- Dr. Utkarsh Raj selected as a ‘Lifetime Member’ at NASI
Dr. Utkarsh Raj, Ph.D., Assistant Professor, Department of Biotechnology and Bioinformatics, has been selected as a Lifetime Member at the prestigious National Academy of Science, India. Dr. Utkarsh Raj is among the 26 people selected under Biological Sciences. NASI, Allahabad is one of the three oldest prestigious science academies in India. The other two are the Indian National Science Academy, New Delhi, and the Indian Academy of Sciences, Bangalore. It is a proud moment for not just Dr. Utkarsh Raj, but also everyone at NIIT University.
- uLektz Wall of Fame “Top 50 Eminent Librarians in India”
Dr Vinay Kumar Kainthola , Assistant Librarian and In Charge of LIRC (Library and Information Resource Centre), NIIT University has been featured in uLektz Wall of Fame “Top 50 Eminent Librarians in India” for the year 2020. The uLektz Wall of Fame Certificate programme received thousands of entries from across the nation out of which Top 50 were selected and very proudly, Dr Vinay was also featured amongst them.
- Dr Ganapathirao Maradana, Assistant Professor department of Mathematics & Basic Sciences is first recipient of the “Best Teacher of the Year 2020-21 Award instituted by Prof V S Rao Foundation at NU.

- Prof. S. N. Sharan, Area Director, ECE
 - 1) Paper titled “Content based Image retrieval using Multilevel 3 D Colour texture and Low level Colour features with Neural Network based Classification System”, Priyesh Tiwari, Kulwant Singh, Shivendra Nath Sharan and Suraj Kanya, was published in International Journals of Circuits, Systems and Signal Processing, Vol. 15 , pages 265-270
 - 2) Paper titled “**Relative Result Analysis of SPV Tracking System on Simulink Platform**” presented at the International Conference “**NUCclearCSE-2022**”, held at NIIT University, Neemrana from January 20th to 22nd, 2022.
 - 3) Paper titled “**A Technical Analysis of Melanoma Classification Methods based on Machine Learning Algorithms**” presented at the International Conference “**NUCclearCSE-2022**”, held at NIIT University, Neemrana from January 20th to 22nd, 2022.

- Dr. Ajay Kumar Singh, Professor, ECE
 - 1) Paper titled "Dual Metal Triple-gate-dielectric (DM_TGD) Tunnel Field Effect Transistor: A Novel Structure for Future Energy Efficient Device " Ajay Kumar Singh and Tan Chun Fui, was published in Recent Advances in Electrical and Electronic Engineering, vol.14, issue 6, pp.683-693, 2021, (ISSN: 2352-0973 (Online), 2352-0965 (Print)), (Impact Score: 0.59), (SCOPUS).
 - 2) Paper titled Design and Performance Analysis of Energy Efficient 11T SRAM (E2S11T) Cell for High Performance and Low Power Applications, S. TG, L. W. Soong, C. M. R. Prabhu and A. K. Singh, was published in 2021 IEEE International Workshop of Electronics, Control, Measurement, Signals and their application to Mechatronics (ECMSM), 2021, pp. 1-7.
 - 3) Paper titled Design and Statistical Analysis of Low Power Robust 13T Static Random Access Memory Cell for IoT Applications, S. TG, L. W. Soong, C. M. R. Prabhu and A. K. Singh, was published in 2021 IEEE Symposium on Industrial Electronics & Applications (ISIEA), 2021, pp. 1-6.4
 - 4) Presented at Virtual international conference, “ICECCEME-2021 07-08 October 2021- Mauritius”, a Paper titled “Renewable and Sustainable Electrical Energy Harvested from Living Plants: An experimental Study”.

- 5) Paper titled “**Sansevieria Plant: Plant Base Cell (PBC) to power up IOT sensor nodes**” presented at the International Conference “**NUClearCSE-2022**”, held at NIIT University, Neemrana from January 20th to 22nd, 2022.
 - 6) Paper titled “**Renewable Energy from Living Plants to Power IoT Sensor for Remote Sensing**” presented at the International Conference “**NUClearCSE-2022**”, held at NIIT University, Neemrana from January 20th to 22nd, 2022.
 - 7) Dr. Ajay Kumar Singh, Professor, ECE appointed as Editorial Board member of International Journal of Robotics and Automation Technology, ISSN (online) 2409-9694
- Prof. S. N. Sharan, Area Director, ECE
 - a. Delivered Expert Lecture on “Application of Robotics in Agricultural Sector” in a webinar, organised by Dept. of Computer Science and Engineering, School of Engineering Science, Jamia Hamdard University, New Delhi, held on 27th August 2021
 - b. Delivered Expert Lecture on “Importance of Resource materials in Indian languages as envisaged in New Education Policy, implemented from July 2020” in a webinar organised by Commission for Science and Technology Terminology (CSTT), Ministry of Education, New Delhi, held on 27th October 2021.
 - Dr. Neha Tiwari, Assistant Professor, ECE
 - a. Selected as Master Trainer for Technical Education Leadership Development Program under UKIERI, (United Kingdom -India Education and Research Initiative) by Dudley team (Dudley College of Technology, London) and AICTE (All India Council for Technical Education).
 - b. Paper titled “**Evolution of Display Technology**” presented at the International Conference “**NUClearCSE-2022**”, held at NIIT University, Neemrana from January 20th to 22nd, 2022.

- Dr. Vikas Upadhyaya, Assistant Professor, ECE
 - a. Paper titled “**A Proposed Security System Using Object Proposals via Super pixel Segmentation**” presented at the International Conference “**NUClearCSE-2022**”, held at NIIT University, Neemrana from January 20th to 22nd, 2022.
 - b. Paper titled “**An Autonomous Virtual Tour Guide System for Tourists**” presented at the International Conference “**NUClearCSE-2022**”, held at NIIT University, Neemrana from January 20th to 22nd, 2022.

- Prof. Jetendra Joshi, Asst. Professor, ECE & Others
 - a) Paper titled “**Lora Based Vehicular Communication**” presented at the International Conference “**NUClearCSE-2022**”, held at NIIT University, Neemrana from January 20th to 22nd, 2022.
 - b) Paper titled “**GNL: GeoFencing Based Smart Outdoor Navigation and Localization**” presented at the International Conference “**NUClearCSE-2022**”, held at NIIT University, Neemrana from January 20th to 22nd, 2022.

15. Students’ Achievements

- HackNU 3.0 Winners Announcement

The third edition of HackNU began on March 10, 2021, and ended on March 29, 2021. It consisted of 3 rounds: Ideathon, Hackathon, and Blogathon. Students from all disciplines participated with unique ideas but only 3 would win the hackathon. The winners of HackNU3.0 are Team ‘HOVERFLY’ while Team ‘THE DEBUGGERS’ and Team ‘SKYLINE INFINITY’ emerged as the first and second runners-up respectively.

Team ‘HOVERFLY’ had a unique idea to navigate industrial complexes by using a ‘Scalable Autonomous Navigating’ drone to follow along pipelines and look for visual signs of degradation such as rust or cracks. It will use onboard sensors to monitor the concentration of natural gas to detect leaks and additionally isolate the leakage source while triggering valve control to prevent further leakage.

Team ‘The Debuggers’ worked on a project called ‘AwFlow’ which focuses on creating an application that measures air and water turbidity using a Smartphone. They

used custom hardware for sensory mechanisms and software development. This will be integrated with smartphones enabling the measurement system within a mobile app.

Team ‘SKYLINE INFINITY’ created an app called ‘MeetEase’ which would help reduce the stress and burden caused due to long working hours. ‘MeetEase’ is a collaborative platform to increase efficiency and flexibility, additionally aiding the current shift towards online work-from-home lifestyle.

- **NIIT University Students Bag First Position in AABTonics GIS Competition**
AABSys IT, an IT company headquartered in Odisha, organised AABTonics – An International GIS competition. AABSys IT is a leading exporter of GIS, CAD and other software services. This event was focused on promoting the use of GIS technology and innovation. Team Professional Pirates consisting of Trisha Sharma and Mayuri Mane, both from B.Tech CSE, Batch of 2018-22 of NIIT University bagged the first position and won Rs 50,000/- by successfully demonstrating their prototype. The team was mentored by Dr. Thota Sivasankar, Assistant Professor, NIIT University. The prototype was able to perform crop classification using Artificial Intelligence and Machine Learning based techniques. The second and third positions were bagged by The Smart Transportation team from CEPT University and Team A Star from Symbiosis Institute of Geoinformatics respectively.

- **Hult Prize: Regional Impact Summit – Kuala Lumpur**

Hult Prize is a global event for all entrepreneurial-minded students who have great ideas for profit or for good. It is considered as the ‘Nobel Prize for Students’ and has associations with eminent personalities like Bill Clinton (42nd President, USA), Mohammad Yunus, Bertil Hult, and many others. It has various rounds and the campus round of the Hult Prize was organized from August to December 2020. Many teams participated in the ‘On-Campus’ round with Team BioPure coming out as the winner and Team Greens and Team NeoPrime as first and second runners-up respectively.

Team Greens, as the first runner-up in the on-campus round, got an opportunity to represent NIIT University in the Kuala Lumpur Regionals on March 27th, 2021. Team Greens aims at redefining food transportation. Massive amounts of crops are wasted in post-harvest activities due to improper handling, lack of proper storage facilities and poor cold chain logistics. Team Greens’s ideas attempt to minimize the losses through specially designed compact, isolated, lightweight containers.

Team Green’s members:

- Ali khan (B.Tech, Batch of 2018-22)
- Aman Mehra (B.Tech, Batch of 2018-22)
- Ananya Tripathi (B.Tech, Batch of 2019-23)
- Yamini Khandelwal (B.Tech, Batch of 2020-24)

- Appreciation of NUtons at Thoucentric

Three Alumni of NIIT University garnered praise for their outstanding performance at Thoucentric and their contribution to the organization. They have been praised for their holistic approach in work which consisted of engaging with all departments and dimensions. They are efficient in meeting deadlines and reaching targets.

The Alumni:

- Antra Tripathi (B. Tech CSE, Batch of 2015-19)
- Ronald Tony (B. Tech Batch of CSE 2016-20)
- Abdemanaaf Zohair Ghadiali (B. Tech Batch of CSE 2016-20)

- Music Video Release: Zindagi by KefiNama

Vandit Sharma (B. Tech, Batch of 2015-19), who goes by the pseudonym 'KefiNama', has been writing, singing and producing songs. His first produced and sung song was named 'Zindagi'. The music video of 'Zindagi' was released on YouTube. Vandit Sharma said that he wrote the song when he was going through tough times. 'Zindagi' is about the uncertainties of life and the teachings of those uncertainties. As the nation was suffering through the second wave of Covid-19, Vandit wanted to convey a message to the people who were going through suffering from this pandemic. He said that the message of the song is inspired by his parents who supported him through his tough times. He has regularly been singing and producing songs.

- Research Papers by Mamidala Karthik Ram

Mamidala Karthik Ram, alumni of NIIT University (NU) (BTech ECE, Batch 2017-21), published two research papers where he first-authored. Other contributors include Dr. Neha Tiwari, Assistant Professor, NIIT University, and Dawit Burusie Abdi, Postdoctoral Researcher, IMEC, Leuven, Flemish Region, Belgium.

The titles of the research papers are :

1. Drain Induced Barrier Widening and Reverse Short Channel Effects in Tunneling FETs: Investigation and Analysis | (Digital Object Identifier: 10.1109/ACCESS.2021.3119858)
2. Effect of Drain Induced Barrier Enhancement on Subthreshold Swing and OFF-State Current of Short Channel MOSFETs: A TCAD Study | (Digital Object Identifier: 10.1109/ACCESS.2021.3125856)

Karthik Ram is the first student from NU to have published two first-authored research papers in the IEEE journal based on their Industry Practice.

The research papers can be accessed using the IEEE Xplore website.

- University Captain and Vice Captain Election

The Student Advisory Council aka SAC organized an election to elect the new captain and vice captain. This is an year on year tradition where new captain and vice captain for the council are elected who then lead the council in looking out for the needs of students. This year we had 4 nominees in total with two for Captain position and two for vice captain position.

Candidates for Captain Position :

Aman Jain (IMBA, Batch 2019)

Anil Hapuram Bishnoi (IMBA, Batch 2019)

Candidates for Vice Captain Position:

Aanya Mittal (B.Tech CSE, Batch 2019)

Ananya Tripathi (B.Tech CSE, Batch 2019)

Since the SAC consists of excellent academic performers and coordinators of clubs, leadership and consistency is assured in captain and vice captain too. Generally, if the Captain is a boy, then the Vice Captain must be a girl and vice versa. This is to encourage equal representation for all genders. The election was conducted through Google Forms in view of COVID situation. The election was online from 10.00 AM to 11.00 AM. The suspense among the candidates and the members of SAC was put to relief the same day with the announcement of results. Anil Hapuram Bishnoi and Ananya Tripathi had won the Captain and Vice Captain positions respectively.

- Head Coordinators Appointed

Head Coordinators for a group of activities, from among members of the Student Affairs Committee named. They will be responsible for coordinating various activities within the group of activities.

The very first group of Head Coordinators, selected through an election process, held on 26th March 2022 were:

1. Cultural Captain : Chirag Chawla.
2. Health and Exercise Captain : Himanshu Wadhwa.
3. Performing Arts Captain : Ayush Pandey.
4. Technology Captain : Prince Jain.
5. Sports Captain : Lakshay Joshi.

- Team Professional Pirates (**Ms. Mayuri Mane** and **Ms. Trisha Sharma**, 4th year B.Tech. CSE students) received 1st position for their Project titled “Crop Classification using Bayesian Hyperparameter Optimized Machine Learning Techniques and Multi-temporal Sentinel-2 Data” in "An International GIS competition" organized by [AABSyS IT](#) on 17th November 2021.

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 Musical Evening Competition, Inter-House Rangoli Competition, Gamers Contest were organised with high spirits and fun. The activities such as Resonance- the Head-Start Programme, House Elections, Celebration of Mahatma Gandhi Jayanti, Republic Day, Independence Day & Teachers Day, etc. kept the campus buzzing with life and energy. The intellectual activities like Inter House GK Quiz etc were also conducted.

17. Sports Activities

Details of Sports Activities during April 2021-March 2022 are given below.

1. Competitions inside the NU

Sr. No.	Date	Name of the Activity	Winner (House/Batch)	Runner-up (House/Batch)
1	20.04.21 to 22.04.21	Basketball Inter House Competition	Green	Orange
2	23.04.21 to 25.04.21	Table Tennis Inter House Competition	Orange	Green
3	24.04.21 to 25.04.21	Futsal Inter House Competition	Orange	White
4	27.09.21 to 03.10.21	Morning Activity	2021 Batch	
5	18.10.21 to 23.10.21	Basketball Inter Batch Competition	B.Tech III year	B. Tech. II Year
6	26.10.21 to 03.11.21	Cage Cricket Inter Batch Competition	B.Tech III year	MBA (IDS)
7	31.10.2021	Run for Unity	All Students	
8	10.11.21 to 17.11.21	Volleyball Inter Batch Competition	Axis Bank	B. Tech. III Year
9	27.11.21 to 01.12.21	Futsal Inter Batch Competition	B.Tech III year	B. Tech. II Year
10	12.03.22	Overnight Camp	2021 Batch (25 Student's)	

2. Competitions outside the NU

Sr. No.	Date	Name of the Activity	Remark
1	13.03.22	Eldico Industrial Area Marathon, Neemrana	13 students participated

The Long Dash

On 13th March 2022, the Running Club of the university, NU Runs, participated in a marathon wherein thirteen students from all batches ran for 5 kilometres around the Eldico Industrial Area. Serious preparations for the marathon started around 2 weeks before the official event where everyone worked on their pace and participated in different drills. The students would diligently wake up at 6:00 AM every morning and strategized their running techniques to be more efficient on the day of the final race. They also motivated each other along the way and maintained a spirit of brotherhood. The team arrived at the venue at 5:30 AM with immense enthusiasm and excitement. This was the first marathon that the club participated in since the outbreak of COVID-19. The event was a major step toward breaking the hebetude due to the virus. The marathon began at 7:00 AM with a total of 250 people on the track. The event was a highly competitive one where one lap around the industrial area was about two and a half kilometers long. Out of all the people who participated, the students of NU were able to secure a position in the top fifty competitors.



18. Campus Development

Following works were executed:

1. Creation of toilet and water facility for Security Team at the Main Gate.
2. Renovation of Mess Kitchen.
3. External Wall treatment of Air Handling Unit rooms in UG-1 Hostel to prevent flooding during rains.
4. Provision of additional accommodation for support staff within the Campus.
5. Conversion of two additional cemented badminton courts to synthetic courts.

19. 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

University Campus	Admissions Office
NIIT University Neemrana NH-8 Delhi-Jaipur Highway District Alwar Rajasthan – 301705	NIIT University Admissions Office NIIT Building Plot No. 85, 1st Floor Sec – 32, Institutional Area, Gurgaon – 122001

Dr. Shivendra Mathur
Registrar
NIIT University, Neemrana
Ph. No. 01494-660620, 660619
Email Id: Registrar@niituniversity.in