

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

**Annual Report**  
**NIIT University, 2018-2019**

## Index

<b>Title</b>	<b>Point No.</b>
Introduction	1
Vision	2
Mission	3
Eighth Convocation Ceremony	4
Tenth Annual Lecture	5
Awards	6
Academic Programmes and, improvements and Innovations in curricula and teaching-learning	7
Students on Roll till March 2019	8
Community Connect Programme	9
Library Collection	10
Workshops & Events	11
Detailed List of Research Activities at NU	12
Distinguished Lecture Series	13
Students' Achievements	14
Faculty Achievement	15
Co-Curricular & Extra-Curricular Activities	16
Campus Development	17
Challenges Ahead	18

## 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. Eighth Convocation Ceremony

The NIIT University marked its **8th Convocation Ceremony** with a solemn event held at its vibrant campus on 6 October 2018. The Chief Guest was **Dr. K Kasturirangan**, Former President, Indian Space Research Organisation (ISRO). The event was also graced by Mr. Rajendra Singh Pawar, Founder, NIIT University; Mr. Vijay Thadani, Co-Founder, NIIT University; Prof. V. S. Rao, President, NIIT University; and the Leadership Team of NIIT University.

NU's 8th Convocation witnessed the First ***Honorary Doctorate*** which was bestowed upon Shri. F C Kohli, also known as the '***Bhishma Pitamaha of the Indian Software Industry***'. He is the recipient of the *Padma Bhushan Award* by the Government of India for his invaluable contribution to the software industry. 171 students- B. Tech., 247 students- Post Graduate Diploma in Banking & Finance, 14 Students- Master of Technology and 47 students- Master of Business Administration were graduated

during 8th Convocation Ceremony. The efforts and achievements of exceptional students were recognized and awarded-

- **Dr. Karan Singh Gold Medal** for outstanding academic performance was conferred upon:  
**Mr. Karanjit Singh Gill** (B. Tech. Computer Science and Engineering, 2014-2018)  
**Mr. Pratyush Kolli** (M. Tech. Geographic Information Systems, 2016-2018)  
**Mr. Abhay Sharma** (MBA Business Analytics, 2016-2018)
- One of the most prestigious awards of the University, the **Ram Rajindra Malhotra Medal** was awarded to **Ms. Nirali Sanjay Sampat** (B. Tech. Computer Science and Engineering, 2014-2018).

## 5. Tenth Annual Lecture 2018

**Dr Karan Singh, Chancellor, NIIT University** and the former member of Parliament spoke on '**The Growing Relevance of Vedanta**' 10th Annual Lecture held at NIIT University (NU). He addressed the topic with six concepts- *Concept of Brahmana* which communicates unity in universal existence; *Concept of Ahatma* which states the divine spark within us; *Concept of Yoga* which tells about intellectual, emotional, physical and psychic dimensions of human body; *Concept of World* reflects world as one family; *Concept of Sensual Unity of Religions* which imparts the philosophical aspect of all religions; and *Concept of Well Being* which asserts, "Welfare of many is happiness of all".

He concluded his talk saying, "Life is not a meaningless journey from womb to tomb but an extraordinary spiritual adventure."

## 6. Awards

- NIIT University Receives **Swachhata Award 2018** from HRD Union Minister Shri Prakash Javadekar for Clean Campus.

NIIT University ranked 6th in the Swachhata Ranking Awards 2018, for Higher Educational Institutions, by Government of India. The Union Minister for Human Resource Development, Shri Prakash Javadekar conferred Swachhata Ranking Awards 2018 for Higher Educational Institutions during the grand event in New Delhi on 1 October 2018. Of the best, 51 higher educational institutions were

selected for Swachhata Ranking Awards in 8 different categories, NU stood 6th in the Technical Institutions/Universities (Residential) category.

## **7. 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 at the foundation. Through the transformational-process-involving courses, R & D project, industry practice and other co-curricular components, the programmes seek to create exceptional leaders trained to lead tomorrow's complex technology-oriented business environment.

### ▪ **B. Tech.**

NU offers Bachelor of Technology Programme in the areas of Biotechnology, Computer Sciences and Electronics & Communications Engineering.

### ▪ **M. Tech.**

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

### ▪ **4-Year Integrated Masters In Business Administration**

The 4-Year Programme is offered to students who wish to make a career in specialized and emerging areas of Financial Technology, Business Analytics, Entrepreneurship, Digital & Social Media Marketing, etc.

### ▪ **4-Year Integrated M. Sc. Computer Science Programme**

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.

### ▪ **Industry Linked Post Graduate Programmes**

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

- Some successful Industry Linked Programmes that have been executed and/or are running are:

- MBA in Business Analytics with WNS
  - MBA in Intelligent Data Science
  - Post-Graduate Diploma in Banking and Relationship Management with Federal Bank
  - Post-Graduate Diploma in Banking and Finance with United Bank of India
  - Post-Graduate Diploma in Banking and Finance with Bank of Maharashtra
- **Ph. D.**  
 NU offers Ph. D in the areas of Educational Technology, Bio-technology, Computer Sciences, Electronics & Communication Engineering, Basic Sciences and Management.
- **Introduction of New Programmes**
    - **IMBA**- 4-Year Integrated MBA Programme is an innovatively designed degree programme meant for young students with managerial and leadership aspirations.
    - **MBA IDS**- Another Industry-Linked Programme in partnership with NIIT Technologies brings a first-of-its-kind 2-Year MBA in Intelligent Data Science, co-created by academic experts from NIIT University and senior professionals from the NIIT Technologies Analytics practice. This programme presents a unique opportunity to create a long-term career in one of the fastest growing areas globally.
    - **M. Des. (Learning Design)**- A 2-Year Master of Design Programme has been introduced in partnership with NIIT Ltd. for learners from a range of content or related fields. The course emphasizes a mix of interdisciplinary collaboration and provides project-based learning. Students enhance their expertise within a chosen design field, including visual communication design. They also broaden their skills and knowledge in design practice.
    - **MBA**: An MBA programme for professionals of NIIT Ltd is launched with an aim to upskill them in the new age skills.

- **Augmentation of Curriculum**

University introduced two new Activity-Oriented Courses viz. Swachh Bharat and Unnat Bharat. In addition to the aforesaid courses, following elective courses have also been introduced: Advanced Wireless Broadband Communications, Cellular and Mobile Communication, Radar Engineering, Environmental Sustainability, Mining Software Repositories, Introduction to Data Analytics, Mobile Communication and Security, Cloud Computing Concepts, Advance Computer Networks, Introduction to Nano-Optics and Nano-Photonics.

- **Nano-Electronics Premier League- A Learning Innovation**

Like earlier years, this year also NIIT University organized Nano-Electronics Premier League. Students were sensitized to their individual learning potentialities. Students, research scholars and faculty members took up 20 real-time Nano-Electronics Projects that span across many courses.

- **P2PL Program**

The University offered an extra academic support to the undergraduate students in their first semester courses through a Peer-to-Peer Learning Programme (P2PL). In P2PL, senior students conducted tutorials in evening sessions.

- **Teaching Assistantship Programme**

The University has introduced a small number of Teaching Assistantship for NUtons who have demonstrated high calibre. Faculty Members will work with Teaching Assistants associated in their course for the entire duration of the Semester to impart a unique learning experience to students. The objectives of this initiative are:

- To modernize teaching learning process by introducing industry-linked project based learning and incorporating use of learning resources available on the internet and other technologies in selected courses
- To raise the under performers to higher level by differentiated instruction/ assessments
- To prepare multimedia course material for on-line delivery (MOOC) of the course

▪ **Industry Immersion/International Immersion for Faculty**

Two faculty members were deputed to ST Microelectronics, Noida under Industry Immersion for two months in June-July 2018. In the same period, one faculty member deputed to the University of Newcastle, Australia.

**8. Students on Roll till March 2019**

<b>Programme</b>	<b>Batch</b>	<b>M</b>	<b>F</b>	<b>Total</b>
<b>B. Tech.</b>	2013	1	0	1
<b>B. Tech.</b>	2014	2	3	5
<b>B. Tech.</b>	2015	180	56	236
<b>B. Tech.</b>	2016	163	44	207
<b>B. Tech.</b>	2017	134	42	176
<b>B. Tech.</b>	2018	150	42	192
<b>IMBA</b>	Jul, 2018	18	6	24
<b>MBA (BA)</b>	Jul, 2017	58	8	66
<b>MBA (IDS)</b>	Jul, 2018	39	15	54
<b>MBA (NIIT)</b>	Jul, 2018	21	6	27
<b>M. Des.</b>	Jul, 2018	16	6	22
<b>M. Sc. (CS)</b>	2017	2	3	5
<b>M. Tech. GIS</b>	Jul, 2017	4	1	5
<b>M. Tech. GIS</b>	Jul, 2018	6	3	9
<b>M. Tech. ET</b>	Jul, 2018	1	2	3
<b>Ph. D. BT</b>	Jul, 2012	0	4	4
<b>Ph. D. ET</b>	Jul, 2012	1	0	1
<b>Ph. D. ECE</b>	Jan, 2014	2	1	3
<b>Ph. D. MGT</b>	Jan, 2014	2	0	2
<b>Ph. D. SCI</b>	Jul, 2015	1	0	1
<b>Ph. D. SCI</b>	Jan, 2017	1	0	1
<b>Ph. D. CSE</b>	Jul, 2016	1	0	1
<b>Ph. D. MGT</b>	Jan, 2016	1	0	1
<b>Ph. D. MGT</b>	Jul, 2016	0	1	1
<b>Ph. D GIS</b>	Jan, 2017	1	0	1
<b>Ph. D. ET</b>	Jan, 2017	2	1	3
<b>Ph. D. CSE</b>	Jan, 2017	1	0	1
<b>Ph. D. GIS</b>	Jul, 2017	1	0	1
<b>Ph. D. MGT</b>	Jul, 2017	1	0	1
<b>Ph. D. ET</b>	Jul, 2017	1	0	1
<b>Ph. D. CSE</b>	Jan, 2018	1	0	1
<b>Ph. D. ET</b>	Jan, 2018	0	1	1
<b>Total</b>		<b>812</b>	<b>245</b>	<b>1057</b>



## 9. Community Connect Programme 2018-2019

NIIT University is committed to give its students a holistic development tending not just to the technical education but also the moral one. The core principle of Seamlessness expounds the same, wherein students study subjects not directly connected to their fields, but which give them the basics of all sciences. One of the declared educational objectives of NU of 'preparing well-rounded' citizens is practised in *Community Connect Programme*.

This programme connects students with the community at large through a Mentor-Mentee relationship. The students regularly visit local schools under our '*Each One, Teach One*' Programme. The inclusion of this programme was done with the intention to bring them face to face with the social and educational issues in basic education. The objective is to develop them into free thinkers, self-driven entities, sensitive to social cause, environment and culture to contribute positively for the betterment of society and mankind and to prove themselves as truly educated global citizens.

In the year 2018-2019, NU conducted Community Connect visits in both the semesters on every Saturday in government run schools at locations such as Kali Pahari, Janak Singh Pura and Mohladia. NUtons prepared power point presentations and posters to teach school mentees. Also, NUtons conducted few activities, games to understand the level of creativity amongst primary level students. The teaching areas covered vast subjects such as Swachhta Abhiyan, health and hygiene, water conservation, soft skills, Indian Constitution, spoken English, etiquette and manners, Indian freedom fighters , basic management skills etc. Through this vast coverage, the school students got a good exposure to many such important areas outside their regular curriculum. During the Academic Year 2018-19, total 214 students participated in the *Community Connect Programme* along with the student mentors and faculty coordinators.



## 10. Library Collection

LIRC is fully computerized and uses Koha (Open Source ILS – Integrated Library System) as the Library Management System. 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, ejournals, journals and also provides access to e-resources which are available in public / open domain.

Sr. No.	Resource	Number
1	Books	13241
2	National Journals	29
3	e-Journals	7837
4	Magazines	14
5	Bound Volumes of Journals	342
6	Audio & Video Resources	1262
7	Newspapers	4

- **E-Journals/Online Database Collection**

Sr. No.	Title	Sr. No.	Title
1	ACM Digital Library	5	JGate – Engineering & Technology
2	CMIE – Prowess (IQ)	6	Jstor
3	EBSCO (BSE)	7	NPTEL Videos
4	ICRA Reports	8	National Digital Library

- **Knowledge Dissemination Cell**

The KDC provides Alert Information Service (AIS), Current Awareness Service (CAS) and Current Content Service. The cell plays significant role in the creating awareness among NU fraternity.

- **User Awareness and Information Literacy**

- Conducted Invited Talk on Plagiarism to create awareness about plagiarism among NU academic fraternity
- Organised a Workshop on Mendeley (A Reference Management Tool) to sensitize NU academic fraternity especially faculty, research scholars, B. Tech. (III & IV Year)
- Organised a workshop on CMIE Prowess IQ for faculty and students of management area

- **Student Survey**

- Conducted feedback survey to improve library services and facilities
- Revised students' circulation privileges

- **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 the resources of 6666 libraries. 6644 libraries are in India and 22 in overseas countries.

- **National Digital Library**

NU has acquired institutional membership of NDNL. Its users can access 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 10 million items which include Theses, articles, audio lectures, video lectures and book, etc. It provides access to more than 60 learning resource types in 70 languages.

- **Shodhganga: A reservoir of Indian Doctoral Theses**

The NU has signed an MOU with Shodhganga which provides access to 220000 Doctoral Theses.

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

NU LIRC has become a member of E-ShodhSindhu through which it can negotiate rates of subscription/ renewal for selected electronic resources.

- **Library Management Software**

Updated latest version of Koha 18.05.06.000 (Open Source ILS- Integrated Library System) as the Library Management System

- **Seamless Access of E resources**

Started remote access services of LIRC online resources

## 11. Area-wise Events

- **Doctoral Symposium**

The 2nd Doctoral Symposium organized by the areas of CSE and ECE was held between 6-7 April 2019. There were 7 tracks in the areas of Network Security, Cloud Computing, Mobile Communication, Machine Learning, Artificial Intelligence, Data Science, Big Data engineering, semiconductor devices, VLSI among others. Ph. D scholars were invited to submit their research work aligned to the track areas. Submitted work was reviewed by a technical committee. Abstracts were received from Ph. D scholars from reputed universities of India out of which 19 abstracts were selected. The selected Ph. D scholars presented their research work during the course of the 2-day event. Moreover, eminent speakers from industry and academics delivered special talks along the theme of the symposium. A panel discussion was held on the topic '*AI in the Real World: Future Trends and Open Problems*'. The discussion was

very well received with an active audience interaction. Some of the speakers were- Mr. Karan Bajwa, Chief Guest, Dr. Lipika Dey, Mr. Rajesh Mathur, Prof Dinesh Kumar. We also had Dr. Danilo Demarchi from Politecnico di Torino, Italy who delivered a talk in the area of IoT and Nanoelectronics. The Doctoral Symposium successfully created a common platform for faculty and students of NIIT University, invited Ph. D scholars and eminent speakers from industry and academics to interact and share their views on various research ideas. An abstract bulletin of the symposium was published.

- **Faculty Development Programme for Qingdao University, China**

We hosted faculty and students from Qingdao University from 18 December 2018 to 15 January 2019. In the two weeks, the faculty and students were familiarized with the four core principles of NU along with a discussion of our capabilities in different niche areas. The faculty of Qingdao University also exchanged their University's ideas and research areas. During the remaining weeks, the students were taken through formal sessions on Business Intelligence and Data Warehouse systems, Cyber Security, Wireless sensor networks, Hadoop and NoSQL and finally Data Science. These sessions were delivered by NU faculty members. Special talks, also by NU faculty, were in the area of machine learning, computer vision, GIS and theoretical computer science. Through the sessions the students were made to do assignments which were presented during the last two days of the interaction.

- **Expert Talk by Professor Prof. Vincenzo Piuri , University of Milan, Italy**

A session on 'State-of-the-art in Artificial Intelligence, Industrial Application of AI, Higher Education and Research Opportunities in AI' was organized for faculty and students of NU on 29<sup>th</sup> April 2019. This was delivered by eminent Professor Prof. Vincenzo Piuri from University of Milan, Italy. He is an IEEE of fellow, Editor-in-Chief for IEEE System Journal, and candidate for IEEE president-elect. 2019. Prof. Puri is a pioneer in the fields of AI and closely working with IEEE from the past 2 decades.

## **12. Detailed List of Research Activities at NU**

Research activities carried out between 1<sup>st</sup> April 2018 to 31<sup>st</sup> March 2019 by distinct faculty members are appended in the following:

### A. On-Going Projects

<b>Sr. No.</b>	<b>Project Title</b>	<b>PI Name</b>	<b>Agency</b>	<b>Project Sanction Amount (In Lakhs)</b>	<b>Project Starting Date</b>
1	<i>Modeling the snow properties for their classification and identification</i>	Dr. Mohd Anul Haq	Department of Science and Technology	37.36	Mar-16
2	<i>Understanding the Geomorphology of Martian Surface Using Mom Data sets.</i>	Dr. Mohd Anul Haq	Department of Science and Technology	17.28	Jul-16
3	<i>Internationalized Master's Degree Education in Nanoelectronics in Asian Universities</i>	Prof. Vijay Mandke	European Commission Project	61.94	Feb-16

### B. NIIT University Ignition Grant (NUIG)

<b>Project Name</b>	<b>PI Name</b>	<b>Sanctioned Amount (LPA)</b>
<i>2D to 3D Conversion by combining various depth maps using Machine Learning Approach</i>	Nidhi Chahal	2.00
<i>Generation of Higher Order Vector Modes using Multimode Interference Methods</i>	Nitin Bhatia	6.00
<i>Image Processing and Computer Vision, Pattern Recognition, Content-Based Image Retrieval</i>	Prashant Srivastava	3.76

### C. Research Paper Publications

1. **Arijit Karati**, Ruhul Amin, SK Hafizul Islam, KK Raymond Choo (2018), "Provably secure and lightweight identity-based authenticated data sharing protocol for cyber-physical cloud environment", *IEEE Transactions on Cloud Computing*
2. Nishad K.K., **Neha Tiwari**, **R.K. Pandey** (2018), "Synthesis and Characterization of Ferromagnetic Fe<sub>3</sub>O<sub>4</sub>-ZnO Hybrid Core-Shell Nanoparticles", *Journal of Electronic Materials*, 47, PP 3440-3450, Impact Factor-1.579
3. **Arijit Karati**, Ruhul Amin, SK Hafizul Islam, KK Raymond Choo (2018), "Provably secure and lightweight identity-based authenticated data sharing protocol for cyber-physical cloud environment", *IEEE Transactions on Cloud Computing*
4. **Vivek Srivastava** (2018), "Functionalized Hydrotalcite Tethered Ruthenium Catalyst for Carbon Sequestration Reaction", *Catalysis Letters*, 148, PP 1879-1892, Impact Factor-2.911
5. **Sanjay Kumar Biswash** and Dushantha Nalin K.Jayakodya (2018), "Performance based user-centric dynamic mode switching and mobility management scheme for 5G networks", *Journal of Network and Computer Applications*, 116, PP 24-34, Impact Factor-3.991
6. **Vivek Srivastava** (2018), "Synthesis and Characterization of Pd exchanged MMT Clay for Mizoroki-Heck Reaction", *Open Chemistry*, 18, PP 605-613, Impact Factor-1.42
7. **Vikas Upadhyaya** and Soharab H. Shaikh (2018), "Smart Traffic Security and Surveillance System", *International Journal of Tomography and Simulation*, 31, PP 42-56.
8. **Nitin Bhatia**, Shailendra K Varshney (2018), "Design of an all-fiber multimode-interferencebased multimode optical beam generator: theory and experiment", *Journal of the Optical Society of America B*, 35, PP 1308-1317, Impact Factor-2.048
9. Partha Mondal, **Nitin Bhatia**, Vishwatosh Mishra, Raktim Haldar, and Shailendra K. Varshney (2018), "Cascaded Raman and Intermodal Four-Wave Mixing in Conventional Non-Zero Dispersion-Shifted Fiber for Versatile Ultra-Broadband Continuum Generation", *Journal of Lightwave Technology*, 36, PP 2351-2357, Impact Factor- 3.671

10. **Gaurav Varshney**, Manoj Misra, Pradeep Atrey (2018), "Secure Authentication Scheme to Thwart RT MITM, CR MITM and Malicious Browser Extension Based Phishing Attacks", *Elsevier Journal of Information Security and Applications (SCOPUS)*, 42, PP 01-17, Impact Factor-1.357
11. **Ipseeta Nanda**, Nibedita Adhikari (2018), "Implementation And Analysis Of Partial Reconfiguration Based Xilinx Ise Design Of Processor Peripherals" *IOSR Journal of Engineering (IOSRJEN)*, PP 1-3, Impact Factor-3.712.
12. Sneha Rai, **Utkarsh Raj**, Pritish Kumar Varadwaj (2018), "Systems Biology: A Powerful Tool for Drug Development", *Current Topics in Medicinal Chemistry*, Impact Factor- 3.374.
13. **Pritam Rooj**, S. K. Acharyya, S. Bag, G. Bhunia (2018), "Some new results on functions in  $C(X)$  having their support on ideals of closed sets", *Quaestiones Mathematicae*
14. Sushil Kalyani, **Neeti Mathur**, and Prashant Gupta (2018), "Does Corporate Governance Affect the Financial Performance and Quality of Financial Reporting of Companies? A Study on Selected Indian Companies", *Business Governance and Society Analyzing Shifts, Conflicts, and Challenges*, 1, PP 1-21.
15. **Neeti Mathur**, Rupal Ramawat (2018), "Factors Effecting Job Satisfaction among Female Employees: Indian Context", *International Journal of Research in Business Studies*, 3, PP 1-14, Impact Factor- 5.869.
16. **Prashant Srivastava** and Ashish Khare (2018), "Content-Based Image Retrieval Using Multiresolution Speeded-Up Robust Feature", *International Journal of Computational Vision and Robotics*, 8, PP 1-4.
17. **Anshima P Srivastava** (2018), "Contemporising Myths: Girish Karnad's Yayati" *Re-Markings: A Biannual Refreed International Journal of English Letters*, 17, 91-99, Impact Factor- 8.38.
18. Abhinav Tomar, **Kumar Nitesh** and Prasanta K Jana (2018), "An efficient scheme for trajectory design of mobile chargers in wireless sensor networks", *Wireless Networks*, PP 1-16, Impact Factor- 1.981.
19. **Utkarsh Raj**, Mausami Mondal, Rahul Semwal, Imlimaong Aier, Pritish Kumar Varadwaj (2018), "An entropy-based classification of breast cancerous genes using microarray data", *Neural Computing and Applications*, Impact Factor-4.213.
20. Navdeep Raghuvanshi, Tara Chand Yadav, Amit Kumar Srivastava, **Utkarsh Raj**, Pritish Kumar Varadwaj, Vikas Pruthi (2018), "Structure-based drug designing and identification of Woodfordia fruticose inhibitors targeted against heat shock protein (HSP70-1) as suppressor for Imiquimod-induced



psoriasis like skin inflammation in mice model”, *Materials Science and Engineering C*, Impact Factor- 5.08.

21. **Ipseeta Nanda**, Adhikari Nibedita (2018), “An approach to execution of partial reconfiguration in FPGA using xilinx planahead”, *International Journal of Pure and Applied Mathematics*, 117, PP 217-224, Impact Factor -7.
22. **Ipseeta Nanda**, Nibedita Adhikari (2018), “Study and Design of Reconfigurable Processor Peripherals using Xilinx Tools”, *Journal of Electronic Design Technology*, 9 (1), PP 17-23, Impact Factor-5.

#### **D. Book/Book Chapter Publications (International)**

1. Praveenkumar Upadhyay and **Vivek Srivastava** (2018), “Synthesis of Ionic Liquid Mediated Nanoparticle Synthesis”, *NANOMATERIALS Physical, Chemical, and Biological Applications*, Apple Academic Press Inc.- CRC Press, a member of Taylor & Francis Group, PP 67-90
2. **Deepika Prakash** (2018), “Data Warehouse Support for Policy Enforcement Rule Formulation”, *New Perspectives on Information Systems Modeling and Design*, António Miguel Rosado da Cruz and Maria Estrela Ferreira da Cruz, IGI Global, PP 255-273.
3. **Prashant Srivastava** and Ashish Khare (2018), “Content-Based Image Retrieval Using Multiresolution Feature Descriptors”, *Recent Advances in Computer Vision- Theories and Applications*, M. Hassaballah and K. Hosny, Springer, PP 211-235.
4. **Chandan Medatwal** (2018), “Śrīmad Bhagavad Gītā and Knowledge Management with Special Focus on Jñāna Yoga”, *Managing by the Bhagavad Gītā - Timeless Lessons for Today’s Managers*, Dhiman Satinder and A D Amar, Springer.

#### **E. Book/Book Chapter Publications (National)**

1. **Dr. Vaishali J. Shinde** (2019), “Language of Social Media Advertising”, *Postmodern Perspectives in English Language and Literature*, Authorspress Publications New Delhi & Global Partners, Authorspress Publications New Delhi & Global Partners, PP 408-431
2. **Dr. Neeti Mathur**, Mrs Rupal Ramawat (2019), “Challenges and Opportunities for Women as a Leader”, *Reinventing Human Resource Management, Global*

*Dimensions*, Dr. Chandan Medatwal, Dr. R.A. Gupta, Akhand Publishing House, PP 136-148.

3. **Dr. Neeti Mathur**, Mrs Rupal Ramawat (2019), “Gender Differences in Global Leadership (An Emphasis on Female Leadership Barriers)”, *Reinventing Human Resource Management, Global Dimensions*, Dr. Chandan Medatwal, Dr. R. A. Gupta, Akhand Publishing House, PP 223-244.
4. **Dr. Chandan Medatwal** and Dr. Neelam Kaushal (2019), “Employees Attitude towards Psychological Contract in Selected Industries”, *Reinventing Human Resources Management*, Dr. Chandan Medatwal and Dr. R. A. Gupta, Akhand Publishing House.

### 13. Distinguished Lecture Series

Sr. No.	Date	Name of the Speaker	Name of the Company/Institute/University	Topic
1	Wednesday, Apr. 18, 2018	Prof. Prabhat Ranjan	Executive Director, TIFAC	Sensor Technology & Its Applications on the Moon and Technology Vision 2035
2	Monday, April 23, 2018	Shri Rajendra Singh	Waterman of India	Dangerous Landscape Solution
3	Thursday, May 10, 2018	Shri Yadukrishnan S	Head of Outreach, Rajasthan Student Startup Exposure Program, GOR	Rajasthan Student Startup Exposure Program (SSEP)
4	Saturday, June 02, 2018	Mr. Anurag Dikshit	Vice President, RBS India	Sales and Marketing analytics
5	Thursday, August 23, 2018	Mr. Rajan Anandan	Vice President & Managing Director, Google Inc, India	Internet for every Indian
6	Saturday, September 01, 2018	Ms Heather Wallick	Founder of Wallick Global Consulting Private Ltd	Preparing for Advanced Studies
7	Thursday, September 06, 2018	Mr. Akshay Kumar Rathore	Associate Professor of Concordia University Montreal, QC, Canada	Research Paradigm in Modern Power Electronics, Its Application
8	Monday, September 17, 2018	Mr. Rakesh Bharti Mittal	Vice-Chairman, Bharti Enterprises	India Rise – Opportunities & Challenges
9	Wednesday, November 21, 2018	Prof. Chandra Shekhar	Chairman, Board of Governors, AcSIR & Chancellor, AcSIR	Computation in Science and Engineering
10	Wednesday, November 21, 2018	Dr. Ramesh C. Gaur	Director (Library & Information) & Head-Kala Nidhi Division, IGNC	Plagiarism its Detection and Avoidance with a special reference to UGC Plagiarism Regulations 2018

11	Wednesday, January 09, 2019	Dr. Michael Gould	Esri Inc.	Geospatial education and its usage in various industries across the globe
12	Wednesday, January 09, 2019	Mr. Kunal Dureja	Industry Head- Education, Esri India	Emerging Technologies
13	Saturday, January 12, 2019	Mrs. Rashmi Misra	Founder of VIDYA Integrated Development for Youth and Adults	VIDYA- a journey to Educate, Empower and Transform India
14	Saturday, January 12, 2019	Prof. Ashok Misra	Distinguished Professor, Indian Institute of Science, Bangalore	Fostering Creativity and Innovation in Science and Technology
15	Monday, January 28, 2019	Dr. Hari Krishna Maram	Vice Chancellor, Universal Digital University, USA	Future of Technology
16	Saturday, March 09, 2019	Dr. Jayant Khandare	Co-founder and Chief Scientific Officer, Actorius Innovations and Research (AIR), Pune	His Experience in Translation from Lab to Clinic - Company

#### 14. Students' Achievements

- **Selection in Grand Finale Smart India Hackathon 2018**

Two teams from NU qualified for the Grand Finale of Smart India Hackathon 2018. It is an initiative by Hon'ble Prime Minister, Shri Narendra Modi to bridge the digital divide in our country.

- **India Skills East 2018**

Gulshan Singh B. Tech CSE (2015-2019), took part in India Skills East finals in ITSSB (Information Technology for Software Solutions in Business) category. He bagged the second position in the competition along with a cash prize of Rs. 11,000 and received it from governor of Odisha.

- **Student Startup Exposure Programme Government of Rajasthan**

Two students were selected for the Student Start-Ups Exchange Program Of Government of Rajasthan. Both of them are part of the NU incubator and are among the 100 students chosen for the trip to Silicon Valley.

- **Development of a mobile application -CII Ready Reckoner**

Two NU students developed a mobile application CII Ready Reckoner- Key economic statistics . The application was launched by Mr. Rakesh Bharti Mittal,

Vice chairman of Bharti group, and President of Confederation of Indian Industry and NIIT University founder Mr Rajendra Pawar

### **HackHarvard 2018**

Shreyas Sanghvi and Sarthak Tripathi of B-Tech Batch 2016-20 participated in a HackHarvard 2018 held from 19th-21st October 2018 and secured first place in the best hardware hack using a Qualcomm device at Harvard.

### **Incubation and Funding for PeerXP Startup from NU**

PeerXP Technologies started by Mr. K Manoj Kumar, Mr. Vinit Koshti and Ms. Simran Malhotra, alumni of NIIT University, has been selected for the Global Accelerator Program and Incubation from Commence-Mint which is led by senior leadership of Infosys and Accel Partners. They have raised a seed funding of Rs.1 million along with an extra merit-based funding opportunity of Rs.10 million.

#### ▪ **Publication of Research Paper**

A team of 5 alumni students published a paper in Springer on 'Online Partitioning of Large Graphs for Improving Scalability in Recommender Systems'.

- B.Tech III Year student, Hitesh Mittal's paper "Broadcasting a Laser using Bragg Grating for Free-Space Optical Communication" has been accepted at Photonics 2018, IIT-D, for Poster Presentation.
- R&D research work of Vinod Gujral (B-Tech 4th year, ECE,) has been accepted for presentation in one of the most impact valued conference under IEEE ComSoc i.e. IEEE ANTS (Advanced Networks and Telecommunication Systems).The paper is titled as "Advanced Speech Processing for Speaker Authentication in Communication Systems".
- NIIT University alumni, Rishi Prasad Pisipati (B.Tech CSE Batch: 2013-17) participated in a Hackathon at Carnegie Mellon and his team won 5000\$ and a potential contract with UPMC subsequently.
- Uddalak Bhaduri represented NU at an international programming competition in Moscow. He had taken part in a total of 5 prestigious programming competitions, out of which he emerged as a winner in one and as a finalist in 3.
- The NU Music Society performed in an annual event at BITS, Pilani- Oasis, India's third largest cultural fest. NU students won awards in various group and solo events.

- NU Robotics has bagged the following positions in Amity Gurgaon, Amifest2019 on 19th of February -  
1st Place in Robo Wrestling  
1st Place in Robo Race  
2nd Place in Robo Race
- NU student participated and was awarded at the National Finale of International IDEathon for Japan Startups and Indian Students which was held in Bangalore. This Ideathon was organised collaboratively by Government of Japan (Ministry of Economic, Trade and Industry) and Pasona India Pvt. Ltd.

### 15. Faculty Achievement

- **Dr. Narayan Kumar** got a Patent under his name by a recent invention which he achieved along with Prof. Ashis Das. The details are given below:  
**Invention Title:** Temperature Inducible Promoter Derived and Modified from Enterococcus faecium DJ1 plasmid, and its use in E.coli for production of desired protein  
**Name of Inventors:** Prof. Ashis Das and Dr. Narayan Kumar

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

Cultural Events and festivals are celebrated 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 and Street Plays were organized with high spirits and fun. The activities such as Head Start Boot Camp and Resonance- the Induction Programme, Celebration of Republic Day, Independence Day & Teachers Day, overnight Adventure Camp, Painting Workshop, Blood Donation Camp, etc. kept the campus lively. The intellectual activities like Business Quiz, India Quiz, Inter-House Debate Competition and Public Speaking Seminars were also conducted. Dance and Music classes were held on regular basis.

- **siNUsoid v 2.0**  
The 2nd edition of *siNUsoid- The Tech Fest* of the University was held from 26-28 October 2018. The event comprised of many Tech-related competitions like, Hackathon, Code Jam, Error Stack, Digital Arts, Capture the Flag, Math Jam, Weave the Web, Mr. Googler, Tech Quiz, Robo Race, Robo Soccer, Fintech Workshop, Biz Conclave, Intern Fair, Cybersec Talk, etc.

- **ingeNUity'19**

The 7th edition of *ingeNUity* 'The Annual Cultural Fest' of NIIT University was organized from 8-10 March 2019. The magic kicked-off with the opening ceremony of *ingeNUity'19*, inaugurated by Prof. V. S. Rao, President NU; and the Core Organizing Team. Many teams from Universities and Colleges in the NCR and Jaipur participated in competitions like Nukkad Natak, Dance, Song and Band. It also included some entertaining performance from some select bands and artists.

- **TEDxNIITUniversity 2019**

The annual event of TEDxNIITUniversity was held on 24 Feb 2019. Ten speakers including Mr. Salman Khurshid, Richard Rekhy, Lt. Gen. Vinod Bhatia, Nidhi Lauria, NINO the Robot and Digital Gandhi, delivered very interesting talks.

- **NU विविधा Art Club Annual Exhibition, 2018**

The Annual Exhibition of NU विविधा Art Club, 2018 was organized on 17 November 2018. The theme of the Annual Exhibition of NU विविधा Art Club, 2018 was- *अभिव्यक्ति*.

The theme didn't focus any genre, any topic, any medium or any form but independently showcased spontaneous thoughts of the artists who wanted to converse their free will through their art. NU विविधा Art Club intended to endorse- 'Any thought in one's mind can be expressed through a painting'. This enabled a variety of topics woven with beautiful forms. The artists challenged themselves and came up with beautiful characters, landscapes, sculptures, structures, miniatures, origami and craft artefacts. Various mediums were used for craftsmanship like charcoal, pencil, pastels, clay, oil or acrylic colours and various types of papers to transform the venue in a picturesque gallery.

Every year, a lot of guests are excited to visit the exhibition and this year's gallery made them awestruck. The guests appreciated all the forms of art for the skillful blend of expressions with forms and colours.

▪ **The Asian Lenses Forum (TALF)**

- TALF orientation session in resonance for new students
- Orientation session for Chinese Students during *India Immersion Programme*
- Decoding the Indian Classical- 2 episodes (Bharatnatyam & Flute) performed by students of 2018 Batches
- Talk by Mr. Vikramjit Rooprai from Heritageshaala

▪ **Sports Events**

Besides individual events and competitions, Inter-House Tournaments were held regularly in Cricket, Football, Basketball, Badminton, Lawn Tennis, Table Tennis and Pool.

Sr. No.	Date	Name of the Activity	Winner (House/Batch)	Runner-up (House/Batch)
1	14.04.18 to 15.04.18	Athletics Inter House Competition	Orange/White House	Green House
2	05.06.18	NUPL Cricket League Final {Season-9}	CSK	KXIP
3	21.04.18	Inter House Chess Tournament	Orange House	White House
4	16.07.18 to 03.08.18	Inter Cluster Competition	Badminton, Table Tennis, Basketball, Soccer, Cage Cricket, Gym, Volleyball, Cross Country	
5	28.08.18 to 04.09.18	Table Tennis Inter Batch Tournament	B. Tech. II year	B. Tech. III year
6	29.08.18 to 3.10.18	NUPL Cricket League {Season-10}	KKR	CSK
7	17.09.18 to 26.09.18	Volleyball Inter Batch Tournament	B. Tech. IV year	Faculty/Staff
8	17.09.18 to 13.10.19	Badminton Premier League {Season-5}	NU United	Team Rocket

9	18.09.18 to 10.10.18	Kabaddi Inter Batch Tournament	B. Tech. III year (A)	B. Tech. II year (A)
10	29.09.18	Friendly match with BML Munjhal University (Basketball)	BML Munjal University	NIIT University
11	5.10.18 to 07.10.18	Sports meet at BML Munjhal University, Dharuhera	NU participated in the Kabbadi, Basketball, Badminton, Pool, Cricket, Football, Chess & Table Tennis	
12	08.10.18 to 15.10.18	Badminton Inter Batch Tournament	B. Tech. IV year	B. Tech. I year (G)
13	31.10.18	National Unity Run	Arjun Bakshi	
14	14.11.18 to 25.11.18	Cricket Inter Batch Tournament	B. Tech. II year	B. Tech. IV year (B)
15	14.11.18 to 24.11.18	Pool Inter Batch Tournament	B. Tech. IV year	Faculty/Staff
16	20.11.18 to 27.11.18	Basketball Inter Batch Tournament	B. Tech. IV year	B. Tech. III year
17	23.11.18 to 25.11.18	Soccer Inter House Competition	Orange House	White House
18	19.12.18 to 30.12.18	SBI Sports Activity	Chandigarh Zone	Delhi Zone
19	21.01.19 to 23.01.19	Table Tennis Inter House Competition	Orange House	White House
20	24.01.19 to 28.01.19	Pool Inter House Competition	Green House	White House
21	25.01.19 to 27.01.19	Sports meet at LNMIIT, Jaipur	NU participated in the Table Tennis	
22	27.01.19 to 10.02.19	Cricket Inter House Competition	Green House	White House
23	29.01.19 to	Badminton Premier League {Season-6}	NU United	Team Rocket



	01.03.19			
24	29.01.19 to 31.01.19	Badminton Inter House Competition	Green House	White House
25	08.02.19 to 10.02.19	Sports meet at Manipal University, Jaipur	NU participated in the Cricket	
26	12.02.19	NU Pro Kabaddi League	On Going	
27	20.02.19	NUPL Cricket League {Season-11}	On Going	
28	01.03.19 to 03.03.19	Sports meet at IIT, Delhi	NU participated in the Basketball	
29	02.03.19	Chess Inter House Competition	White House	Green House
30	26.03.19 to 28.03.19	Basketball Inter House Competition	Orange House	Green House

### 17. Campus Development

- Creation of Workshop Building, 3000 sq. ft.
- Setting up Nestle- a brand food product outlet
- Creation of a separate Metering and Panel Room for bifurcation of energy loads for Academic and Residential (Hostel) Blocks
- Construction of a new flood lit Volleyball Court

### 18. Challenges Ahead

The University has made progress in all aspects and is committed on its journey to excel. The core principles of the University propel 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 must be carefully handled.

## CONTACTS

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