

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

**Annual Report**  
**NIIT University, 2017-2018**

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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. Seventh Convocation Ceremony

NIIT University hosted its 7th Convocation Ceremony on 16th September, 2017. One of the founding Professors of the University, Dr. Raghunath Anant Mashelkar was the Chief Guest for the ceremony. He is an eminent scientist and former Director General of the Council of Scientific and Industrial Research (CSIR). Mr. Rajendra Singh Pawar, Founder, NU; Mr. Vijay Thadani, Co-Founder, NU; Prof. V. S. Rao, President, NU; and the Leadership Team graced the occasion. They were further accompanied by various prominent guests including members of the Board of Management.

On the occasion, 334 students were conferred with the Degrees for successful completion of various programmes at NU. Convocation 2017 was a milestone in the history of NIIT University as NU awarded its first **Ph. D Degree** in Educational Technology to **Mr. Bhushan Talwar**.

**Dr. Karan Singh Gold Medal** was awarded to:

- Shreya Mahabala Alva (B. Tech. CSE 2013)
- Pattan Imran Khan (M. Tech. GIS 2015)
- Anoop Kumar Sharma (MBA F & B October 2014)
- Chavan Sneha Vijay (M. Tech. ET 2015)

**Divya Sara Kurian of B. Tech. (CSE)** was awarded with the **Ram Rajindra Malhotra Medal 2017** for her exemplary performance.

## 5. Ninth Annual Lecture

Dr. Karan Singh, the Chancellor of NIIT University delivered the Ninth Annual Lecture on 11th November 2017. He spoke on "***Five dreams of Sri Aurobindo***". He eloquently spoke about the life of Sri Aurobindo when he joined the movement for Indian independence from the British rule as one of its influential leaders for a while; and then, became a spiritual reformer, introducing his visions on human progress and spiritual evolution. After which Dr. Singh described the 'Five dreams'-

- 1st dream: If a country with such vast diversity can stay united, then so can it unite with its neighbors. It is then true freedom would be achieved. "Nafrat se na dekho dushman ko, shayad woh mohabbat kar baithe".
- 2nd dream: About the unity of the various countries of Asia.
- 3rd dream: Worldwide unification. For unity is a necessity of nature because without it even a large and equipped nation may be weak.
- 4th dream: Re-emergence of India's spirituality and spreading it across Europe.
- 5th Dream: Taking a new step in the evolution of human consciousness.

## 6. Awards

- NIIT University (NU) was conferred "**Clean Green and Sustainability Education and Training Award**" at Clean & Green India awards 2016 organized by Franchise India on 08th April 2016 in New Delhi.
- **NIIT University (NU)** has won the "**Best Infrastructure of the Year**" award at the Indian Education Congress & Awards 2017 in New Delhi, on 07th February, 2017. Instituted by Franchise India group of publications, the Indian Education Awards are one of the most prestigious awards that recognize excellence in the education sector. Into its 7th year now, these awards have become benchmarks in the education and training space in India.

- NIIT University has won the award for **Best Institution for promoting industry-academia interface** at 10th ASSOCHAM Higher Education Summit & National Excellence Awards 2017 at Hotel Imperial, Janpath, New Delhi on 23<sup>rd</sup> February, 2017.

## 7. MoU Signed

NIIT University has signed the following Memorandum of Understanding:

- NIIT University has signed Memorandum of Understanding with INFLIBNET Centre on 28<sup>th</sup> March, 2018 for hosting electronic versions of thesis and dissertation in open access with interface to search, retrieve and access thesis content.
- NIIT University has signed Memorandum of Understanding with NIIT Technologies Ltd. on 6<sup>th</sup> March, 2018 to design, develop and implement the MBA (Intelligent Data Science) Programme.

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

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

- **B. Tech.**  
NU offers Bachelor of Technology Programme in the areas of Bio Technology, Computer Sciences and Electronics & Communications Engineering.
- **M. Tech.**  
NU offers Master of Technology Programme in the areas of Educational Technology and Geographic Information Systems.
- **Integrated M. Sc. in Computer Science Programme**  
The Integrated M. Sc. Computer Science Programme at NU uses the university's four core principles: Industry-linked, Technology-based, Research-driven and Seamless, as its foundation. The 4-Year Programme is offered primarily to students who have opted for Physics, Chemistry and Biology and dropped Mathematics in Class 11 and 12 (or equivalent) and who wish to pursue a career in Computer Science.

- Industry Sponsored Programmes

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

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

- MBA in Business Analytics with WNS
- Post-Graduation Diploma in Banking and Relationship Management with Federal Bank
- Post-Graduation Diploma in Banking and Finance with United Bank of India
- Post-Graduation 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, Natural Sciences and Management.

- Expansion of Laboratories

- a. Introduced two new full-fledged labs namely- Power Electronics and Satellite Communication.
- b. Upgraded Control Systems Lab with new experimental kits.
- c. Strengthened Fibre Optic Lab with two more Optical Fiber Communication Trainer Kits.
- d. Strengthened Embedded System Lab and Microprocessor & Microcontroller Lab with two more controller boards.

- Augmentation of Curriculum

- Introduced two new elective courses viz. Satellite Communication and Power Electronics in the last semester

- Nano-Electronics Premier League- A Learning Innovation

The project design was roughly based upon the premier league model of cricket gaming. Majorly adhering to the principles of team co-operation, strategic thinking & learning, creative performance, continuous development and transparent evaluation. 220 students of B-tech 1<sup>st</sup> year were sensitized to their individual learning potentialities. 25 students of B-tech 3<sup>rd</sup> year, four PhD Research Scholars and individual course instructors took up 20 real-time Nano-

electronics projects (list attached) that span across three 1<sup>st</sup> Year courses of Physics, Chemistry and Fundamentals of Electronics. These projects were linked with corresponding industries involved with the similar advancements and breakthrough reformations in the future developments of Nano-Technology.

The “Nano-Electronics Premiere League 2017” (Learning innovation: NanoEPL-2017), as it is commonly known in NU; 20 teams ,each consisting of 11 Members and dedicated to their specific research project in Nano-electronics-cum-Nano-Technology, contested against each other through four different stages involving i. Research & discovery driving web-quest development, ii. Online evaluation, iii. Formal presentations and iv. League debates. There was a scrutiny pattern for every individual as well as the team, based on which marks were awarded alongside eliminations of the underperforming teams, thereby providing a winning project team at the end. By the time these projects were fully completed, all the 220 students working on these projects in the three above mentioned courses not only developed a research-driving digital profile of their own, but also learned to manage work-pressure alongside applying theoretical knowledge in real-time. These students were exposed to the corporate requirements. Every project activity such as research, application, industry, marketing etc., was carefully allotted to the team members catering to their interests and was updated upon their individual web-quests.

It is believed that the Nano-El Premier League achieved the desired goal of imparting knowledge of industrial applications and teaching work environment behavior through a non-formal way to our undergraduate students. The project will be taken up in the next semester for the NIIT University students and will be a continuous inculcation in the University for the coming academic years.

## 9. Students on Roll till March 2018

<b>Programmes</b>	<b>Batch</b>	<b>M</b>	<b>F</b>	<b>Total</b>	<b>CSE</b>	<b>ECE</b>	<b>BT</b>
<b>B. Tech.</b>	2012	0	1	1	1	0	0
<b>B. Tech.</b>	2013	13	0	13	8	5	0
<b>B. Tech.</b>	2014	135	40	175	139	28	8
<b>B. Tech.</b>	2015	183	56	239	200	27	12
<b>B. Tech.</b>	2016	163	44	207	187	12	8
<b>B. Tech.</b>	2017	135	41	176	153	16	7
<b>Certificate Programme (BOM)</b>	Jun, 2017	22	8	30			

<b>Certificate Programme (BOM)</b>	Nov, 2017	11	3	14			
<b>MBA (BA)</b>	Jul, 2016	40	7	47			
<b>MBA (BA)</b>	Jul, 2017	58	8	66			
<b>M.Sc. (CS)</b>	2017	2	3	5			
<b>PGDBF (UBI)</b>	Sep, 2016	56	18	74			
<b>PGDBF (BOM)</b>	Apr, 2017	65	28	93			
<b>PGDBF (BOM)</b>	Jun, 2017	58	21	79			
<b>PGDBF (BOM)</b>	Nov, 2017	6	2	8			
<b>M. Tech. GIS</b>	Jul, 2016	9	4	13			
<b>M. Tech. GIS</b>	Jul, 2017	4	1	5			
<b>Ph. D. BT</b>	Jul, 2012	0	4	4			
<b>Ph. D. ET</b>	Jul, 2012	2	0	2			
<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. CSE</b>	Jul, 2017	1	1	2			
<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	1	2			
<b>Total</b>		979	294	1273			

## 10. Community Connect Programme

NIIT University is committed to give a holistic development to its students. One of the core principles of NU is seamlessness and the Community Connect is a unique feature of seamless education at NIIT University. One of the declared educational objectives of



NU of 'preparing well-rounded' citizens means that the students are well-rooted in the actual environment. This idea is translated into reality, through the Community Connect course.

Community Connect Programme connects students with the community at large through a Mentor Mentee relationship. The students regularly visit local Government Schools under our 'Each One, Teach One' Programme. The inclusion of this programme was done with the intent to bring them face to face with the social and educational issues in basic education. The main objective of this programme is to develop them into free thinkers, self-driven entities, sensitive to social cause, environment and culture, contributing positively for the betterment of our society and proving them to be truly educated global citizens.

## 11. Library Collection

- **Details of Print and Other Collection**

<b>Sr. No.</b>	<b>Resource</b>	<b>Number</b>
1	Books	12734
2	National Journals	29
3	E-Journals	15077
4	Magazines	14
5	Bound Volumes of Journals	342
6	Audio & Video Resources	1262
7	Newspapers	4

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

<b>Sr. No.</b>	<b>Title</b>	<b>Sr. No.</b>	<b>Title</b>
1	ACM Digital Library	6	Jstor
2	CMIE – Prowess (IQ)	7	MathSciNet

3	EBSCO (BSE)	8	NPTEL Videos & National Digital Library
4	ICRA Reports	9	Science Direct
5	JGate – Engineering & Technology		

- **Knowledge Dissemination Cell (KDC)**

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

- **DELNET (Developing Library Network)**

The LIRC is a member of DELNET and uses its Inter-Library Loan Facility for NU faculty members. DELNET provides an access to the resources of 6313 libraries. 278 libraries are in Delhi, 6011 are in other 33 States and Union Territories, and 24 in overseas countries.

- **National Digital Library (NDL)**

NU has acquired institutional membership of NDL. Its users can access the contributed content (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 18,720,563 items which include Thesis, Articles, Audio Lectures, Video Lectures and Books, etc.

- **Shodhganga: A Reservoir of Indian Thesis**

NU has signed a MoU with Shodhganga which enables access to 205784 Thesis and 5050 Synopsis.

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

LIRC has become the member of E-ShodhSindhu Consortium through which it gets negotiated rates of subscription/ renewal for selected electronic resources.

## 12. Workshops & Events

- **Artist in Residence**

NU organized a theatre workshop from 21st-23rd November 2017 for all the undergraduate and post-graduate students. The workshop was directed by Ms. Shilpi Marwaha, a well-known name in the theatre world.

The participants were taught about technicalities of street play and were given an insight into the various aspects of theatre apart from acting. They were taught breathing exercises to improve voice modulation skills; diction exercises to improve communication skills. Participants were encouraged to express themselves freely. By the end of the workshop, all participants came out as confident and creative individuals who were given a chance to discover and explore themselves in a different light.

On the last day, three groups presented street plays in the evening outside the mess area. As participants practised for performance, they learned about the importance of teamwork, about stage management and most importantly, time management.

- **The Asian Lenses Forum (TALF)**

- A lecture on '*Evolution of Food*' by Prof. Salma Hussain.
- Break the Sleep- Students performed early morning and discussed on various topics.

- **WWD+30 Week**

An International day to celebrate freshwater was recommended at the 1992 United Nations Conference on Environment and Development (UNCED) and the United Nations General Assembly responded positively by designating 22nd March, 1993 as the first World Water Day. Every year thereafter, World Water Day is celebrated on 22nd March around the world. This year, NU organized WWD+30 week from 21st April to 28th April, 2018. This year's theme- 'Nature for Water' explored Nature-Based Solutions (NBS) to the water challenges we face in the 21st century. The week consisted of various activities- Innovative Water Conservation Ideas, streaming of interesting films on Water Conservation, Nukkad Natak, Cultural Show, Talk by Water Scientists and Activists, Poster Contest, Face Painting Competition, Rangoli Competition, Solo Dance Competition and Musical Night. Shri. Rajendra Singh, the 'Water Man of India' gave a talk to spread awareness about the nature-based solutions and how restoration of dead rivers is possible. He also emphasized on the importance of working together as a community for this noble cause. Mr. Vijay Thadani, Air Cmd. Kamal Singh, Dr. Suresh Pareek (Scientist 'D', Central Ground Water Board, Jaipur) and Maj. Gen. A. K. Singh also addressed the students to emphasize the ways and methods of conserving water.

▪ **Sports Events**

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

<b>Sr. No.</b>	<b>Date</b>	<b>Name of the Activity</b>	<b>Winner (House/Batch)</b>	<b>Runner-up (House/Batch)</b>
<b>1</b>	03.04.17 to 28.04.17	NU Basketball League Season-4	Slaying Celtics	Golden State
<b>2</b>	04.04.17 to 06.04.17	Volleyball Inter House Competition	Green House	Orange House
<b>3</b>	15.04.17 to 16.04.17	Athletics Inter House Competition	Orange House	Green House
<b>4</b>	23.04.17	Chess Inter House Competition	White House	Green House
<b>5</b>	16.07.17 to 02.08.17	Inter Cluster Competition	Badminton, Table Tennis, Basketball, Soccer, Cage Cricket, Gym, Volleyball, Cross Country	
<b>6</b>	25.08.17 to 11.11.17	NUPL Cricket League Season-8	Mighty Vikings	
<b>7</b>	28.08.17 to 06.09.17	Table Tennis Inter Batch Tournament	B. Tech. III Year	MBA (BA)
<b>8</b>	31.08.17	ALL STARS (Basketball Match)	East	West
<b>9</b>	05.09.17 to 26.09.17	Volleyball Inter Batch Tournament	B. Tech. III Year	B. Tech. IV Year
<b>10</b>	16.09.17	Friendly match with Myntra	NIIT University	Myntra
<b>11</b>	25.09.17 to 27.09.17	Sports meet at Jamia Hamdard University, New Delhi	NU participated in the Cricket and Basketball	
<b>12</b>	28.09.17 to 10.10.17	Basketball Inter Batch Tournament	B.Tech III Year	MBA (BA)
<b>13</b>	10.10.17 to 10.11.17	NU Pro Kabbadi League	Sapta Garuda	Lull Bulls

14	10.10.17 to 26.10.17	Pool Inter-Batch Tournament	Faculty/Staff	B.Tech III Year
15	05.11.2017	Cricket match with Raffles University, Neemrana	NIIT University	Raffles University
16	6.11.17 to 15.11.17	Badminton Inter Batch Tournament	B. Tech. III Year	B. Tech. II Year
17	13.11.17 to 26.11.17	Cricket Inter Batch Tournament	B. Tech. III Year	B. Tech. IV Year
18	18.11.17 to 19.11.17	Sports meet at BML Munjhal University	University won 3xGold Medals and 1x Bronze Medal.	
19	22.11.17 to 26.11.17	Soccer Inter House competition	Orange House	White House
20	15.01.18 to 22.02.18	NUPL Cricket League Season -9	CSK	KXIP
21	19.01.18 to 24.01.18	Pool Inter House Competition	Green House	Orange House
22	20.01.18 to 26.01.18	Cricket Inter House Competition	Green House	White House
23	22.01.18 to 24.01.18	Table Tennis Inter House Competition	White House	Orange House
24	29.01.18 to 31.01.18	Badminton Inter House Competition	Orange House	White House
25	02.02.18 to 04.02.18	Sports meet at Manipal University, Jaipur	NU participated in the Kabbadi, Basketball, Badminton & Table Tennis	
26	08.02.18 to 11.02.18	Sports meet at Shiv Nadar University, Greater Noida	NU participated in the Cricket	
27	12.03.18 to 14.03.18	Basketball Inter House Competition	Orange House	White House
28	15.03.18 to 17.03.18	Volleyball Inter House Competition	Green House	White House

### 13. Detailed List of Research Activities at NU

#### A. On-Going Projects

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

#### B. Research Paper Publications

- **Khare, S.**, Ghosh, S.K., Latifi, H., Vijay, S. and Dahms, T. (2017), "Seasonal-based analysis of vegetation response to environmental variables in the mountainous forests of Western Himalaya using Landsat 8 data", *International Journal of Remote Sensing*, 38, 4418-4442, Impact Factor-1.724
- Prashant Sharma, Geetika and **Raj Kovid** (2017), "Demonetization and Stock Market Performance: Evidences from India", *International Journal of Research in Finance and Marketing (IJRFM)*, 7, 6, Impact Factor- 6.397
- R Amin, SKH Islam, MK Khan, **A Karati**, D Giri, and S Kumari (2017), "A Two-Factor RSA-Based Robust Authentication System for Multiserver Environments", *Security and Communication Networks*, PP 01-15, Impact Factor-1.067

- **A Karati**, SKH Islam, GP Biswas, MZA Bhuiyan, P Vijayakumar, M Karuppiah (2017), "Provably Secure Identity-based Signcryption Scheme for Crowdsourced Industrial Internet of Things Environments", *IEEE Internet of Things Journal*, Impact Factor-7.596
- **Ashwini Chauhan** (2017), "Comparative Analysis of Bacterial Community Composition and Structure in Clinically Symptomatic and Asymptomatic Central Venous Catheters", *msphere*, 2(5), PP e00146-17
- **Kumar Nitesh**, Prasanta K. Jana (2017), "Relay Node Placement with Assured Coverage and Connectivity: A Jarvis March Approach", *Wireless Personal Communications*, 98, PP 1361–1381, Impact Factor-0.951
- Aakriti Arya, Chaitanya Reddy and **Trupil Limbasiya** (2017), "An Improved Remote User Verification Scheme in Wireless Body Area Networks", *Procedia Computer Science*, 113, PP 113-120.
- **Deepshikha Rathore, Supratim Mitra**, Rajnish Kurchania, **R. K. Pandey** (2017), "Physicochemical properties of CuFe<sub>2</sub>O<sub>4</sub> nanoparticles as a gas sensor", *Journal of Materials Science: Materials in Electronics*, Impact Factor-2.03
- **Kumar Nitesh**, Amar Kaswan, Prasanta K. Jana (2017), "Energy density based mobile sink trajectory in wireless sensor networks", *Microsystem Technologies*, PP 1-11, Impact Factor-1.195
- **Trupil Limbasiya** and Sachit Shivam (2017), "A two-factor key verification system focused on remote user for medical applications", *International Journal of Critical Infrastructures*, 13, PP 133-151.
- **Shweta R Malwe**, Naman Taneja, GP Biswas (2017), "Enhancement of DSR and AODV Protocols Using Link Availability Prediction", *Wireless Personal Communications (Springer)*, 97(3), PP 4451-4466, Impact Factor-1.02
- **Neeti Mathur, Sushil Kalyani** (2017), "Impact of capital structure on profitability, with reference to Oil and Natural Gas Industry in India", *Inspira-Journal of Modern Management and Entrepreneurship*, 7, PP 129-137.
- **Neeti Mathur, Sushil Kalyani**, Navidita Mondal (2017), "Systematic Literature Review on Demonetization", *Asian Journal of Multidimensional Research*, 6, PP 119-126

- **Prashant Srivastava** and Ashish Khare (2017), “Utilizing Multiscale Local Binary Pattern for Content-Based Image Retrieval” *Multimedia Tools and Applications*, Springer, 77, PP 12377-12403, Impact Factor- 1.541
- **Prashant Srivastava** and Ashish Khare (2017), “Content-Based Image Retrieval using Local Binary Curvelet Co-occurrence Pattern—A Multiresolution Technique”, *The Computer Journal*, 61, PP 369-385, Impact Factor- 0.792
- **Arijit Karati**, SK Hafizul Islam, Marimuthu Karuppiah (2018), “Provably Secure and Lightweight Certificateless Signature Scheme for IIoT Environments”, *IEEE Transactions on Industrial Informatics*, Impact Factor- 6.764
- **Manoj Kumar**, Harsh Kumar Verma, Geeta Sikka (2018), “A secure lightweight signature-based authentication for Cloud-IoT crowdsensing environments”, *Transactions on Emerging Telecom Technologies*, PP 01-15, Impact Factor- 1.535
- Christina Klinkhammer, Fabian Böhm, **Vinay Sharma**, Gerhard Schwaab, Michael Seitz and Martina Havenith (2018), “Anion dependent ion pairing in concentrated ytterbium halide solutions”, *The Journal of Chemical Physics*, 148, PP 222802 to 222802 – 7, Impact Factor-2.843
- **Arijit Karati**, SK Hafizul Islam, G. P. Biswas (2018), “A Pairing-free and Provably Secure Certificateless Signature Scheme”, *Information Sciences*, Impact Factor- 4.305
- **Arghya Guchhait**, B Maji, D Kandar (2018), “A hybrid V2V system for collision-free high-speed internet access in intelligent transportation system”, *Transaction on Emerging Telecommunication Technology*, 29, PP 01-09, Impact Factor-1.34

### C. List of Book/Book Chapters

- **Gaurav Varshney**, Manoj Misra, Pradeep Atrey (2018), “Cyberattacks via Google Chrome Browser Extensions”, *World Scientific Reference on Innovation Volume 4: Innovation in Information Security*, World Scientific Publishers, PP 193-210 (Book Chapter).
- Sandip Das, **Ayan Nandy**, Swami Sarvottamananda (2018), “Radius, Diameter, Incenter, Circumcenter, Width and Minimum Enclosing Cylinder for Some



Polyhedral Distance Functions”, *Conference on Algorithms and Discrete Applied Mathematics, Springer, PP 283-300 (Book Chapter).*

#### 14. Distinguished Lecture Series

Sr. No.	Date	Name of the Speaker	Designation & Organisation	Topics covered
1	Tuesday, 18th April, 2017	Mr. Ramesh Loganathan	Managing Director and VP (Products), Progress Software (India)	My Journey with Innovation & Entrepreneurship
2	Saturday, 13th May, 2017	Prof. Easwar Krishna Iyer	Associate Professor at Great Lakes Institute of Management, Chennai	The new emerging digital order
3	Friday, 11th August, 2017	Ms. Pallavi Aiyer	Renowned Journalist	India in Asia
4	Thursday, 31st August, 2017	Mr. Vishal Dhawan	Chief Technical Officer (CTO) for Verifone, USA	Entrepreneurship
5	Monday, 5th March, 2018	Dr. Saurabh Vijay	Postdoctoral researcher at DTU Space, Technical University of Denmark, Denmark	Multi-disciplinary lines of higher studies and research in Germany for undergraduate engineering students

#### 15. Students' Achievements

- **NUton in MHacks University's Top 10**

Uddalak Bhaduri (B. Tech. 2015-19) stood as one of the top ten students at MHacks University of Michigan Hackathon at Ann Arbor, USA. His team comprised of four students, two students from the Oakland University and the one from the University of Illinois Urbana Champaign. They got the prize for '*The Best Use of Machine Learning API*' from DRW (a US based company); he further

got an opportunity to intern at the same company. Moreover, he spoke to potential recruiters like Microsoft, USA who were interested in his resume. He also got a prestigious Google Home Artificial Intelligence product for being a top competitor. The University is proud to have such a talented student.

- **Students of Yokohama National University, Japan Visited NU**

Nine undergraduate students of III Year Business Administration Programme and Prof. Kodo Yokozawa, a Faculty of International Social Sciences of Yokohama University, Japan visited NIIT University on 21st September, 2017. NIIT University organized their visit with an objective of providing a learning and interactive opportunity for our students with their Japanese counterparts. Our University's TALF initiative endeavors to bring together the Asian community and this visit was one such event of building friendly and healthy relations with other Asian countries.

- **NU Students Shine at Megathon 2017, Hyderabad**

Raghav Mittal and Shriram Arvind (B. Tech. 2014-18) won the first prize in "Megathon '17", a technical hackathon jointly organized by IIT Hyderabad and IIIT Hyderabad. At present, both our students are doing their 6-months Industrial Practice in Hyderabad.

- **Quintessence 2018**

A student of NIIT University, Prajwal B. Ainapur won the *Quintessence 2018*, a competition held at the TECHFEST of SRM University, Chennai. It consisted of three rounds; wherein around 60 teams participated from almost 15 different institutions pan India.

- **Medwle- Startup Initiative**

Medwle, a start-up initiative of NIIT University students has made its way to the top 100 in Start-Up Istanbul Competition. It was from among 25000 start-up applications from more than 135 countries all over the world. Medwle Team had **Rakshit Reddy** (B. Tech. 2016-20), **Siddharth Kille** (B. Tech. 2014-18) and **Avinash Reddy**, (B. Tech. 2013-17) who attended the final competition at Istanbul, Turkey from 20th-23rd October, 2017.

- **Internshala- Your Internship Story Contest 2017**

Our student, **Monika Suryan** (B. Tech. CSE 2017 Class) received an appreciation certificate from Internshala for participating in "*Internshala- Your Internship Story Contest 2017*". Her entry was well-crafted and got published on Internshala blog.

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

NU B. Tech. students' team H3xl4w and Jigglypuffs had qualified for the Grand Finale of Smart India Hackathon 2018. It is an initiative started by our Honorable Prime Minister, Shri Narendra Modi to bridge the digital divide in our country. The teams, having six members each of B. Tech III year, competed fiercely to get through the 36-hour long challenge to build the proposed product for the respective ministries under the Government of India. The team H3xl4w had of six members- Harshit Budhraj, Kumari Renuka, Isha Pali, Rishabh K.Kandoi, Abhimanyu, Shailesh Mohta. The other team Jigglypuffs comprised of Shourya Sengupta, Soumi Pal, Mayank Singh, Vinod Gujral, Sai Praneeth and M. Praveen.

- **Presented Paper at IAET**

**Mrinal Sharma** and **Soumi Pal** (both B. Tech. III) presented a paper, entitled- 'Integrated Power Development Scheme' under the guidance of Prof. Gurendra Nath Bhardwaj. The paper was selected in the Third International Conference 'Innovative Advancements in Engineering and Technology, 2018' which is funded by DRDO, New Delhi. They also presented the paper in IAET 2018 at Jaipur National University, Jaipur.

- **Second prize at the National Conference on Emerging trends in Applied Material's Science and Surface Engineering.**

**Akshit Malhotra** and **Yagika Kaushik** (B. Tech. 2015-2019) batch participated at the National Conference on *Emerging trends in Applied Materials Science and Surface Engineering* held at BML Munjal University, Gurgaon on 29th-30th January, 2018. Yagika Kaushik won the second prize for her paper on "Antibiofilm activity of ZnO nanoparticle".

- **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/- received from the Governor of Odisha.

- **Recognition at PwC**

Rajat Rai (B. Tech. 2014- 2018) has been appreciated during his Industry Practice at Price Waterhouse Coopers (PwC) by Mr. Ibrahim Pasha, Accounts Manager; Mr. Love Wadhwa, Associate Director and also Mr. Manu Diwedi, a Partner in the firm. He has been awarded '*The Dazzling Debut Award*' along with monetary benefits in recognition of his performance and the quality of work while working for one of their clients. PwC, a multinational Service firm, made an exception of rewarding an

Intern instead of usually giving this award to its regular employees. It was indeed a moment of privilege and honor for our student and the University.

- **Summer Internship at FireEye Inc.**

Uddalak Bhaduri (B. Tech. 2015-2019) got a summer internship offer from FireEye Inc. FireEye is a billion dollar American publicly listed Cyber Security Enterprise (Milpitas, California) , that has recently come to India in 2015 (NASDAQ: FEYE)

- **Second Position in Dance Competition at Apex Institute of Management and Science**

The NU Dance Club- **Impetus** bagged the second position at the Apex Institute of Management and Science in Group Dance Competition. The competition was held on 26th February, 2018. Our group's performance was highly appreciated by all the spectators.

- **Euphonious Achievement in Oneiros**

The Music Club of NIIT University participated in **Oneiros**, the Annual fest of Manipal University held on 7th-8th October, 2017 at Jaipur. NU students were awarded in the event.

- **First US Patent of NU Alumni**

NU Alumni **Saharsh Tibrewal** (B. Tech. 2010-14) has received his first US Patent. This patent was applied along with three of his colleagues at Amazon Inc. while he was working there as a Software Development Engineer Intern as a part of Industry Practice in the final semester of B. Tech. The patent was given for a '*Performance Based Content Delivery*', a system to predict and identify a user's internet performance speed in real-time to adaptively render content over the internet to improve the user experience on the fly by allowing server-side components to gracefully degrade the payload of the content being rendered.

- **NU Alumni's selection as a member of the CEO Millennial Council**

Bhaskarjit Sarmah (MBA Business Analytics) has been selected to be a member of the CEO Millennial Council. This is a group of 25 WNS employees across the globe who will work closely with WNS Leadership to boost the growth of WNS Brand.

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

Cultural Events and festivals are celebrated every year with much fervour and enthusiasm at NU. Throughout the year, various competitions like Rangoli Competition, Kite-Flying Competition, Mobile Photo Competition, Face Painting Competition, Water

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

- **TEDx Event Launch**

The launch of NIIT University's first TEDx Event took place on 22nd August 2017. TEDx is an international organization and is associated with many famous personalities like Stephen Hawking, Bill Gates, Shashi Tharoor and many more.

- **SiNUoid'17- The First Technical Fest of NIIT University**

The first Annual Technical Fest of NIIT University was inaugurated on 6th October, 2017. Mr. Subhobroto Mukherjee, Ricoh India National Manager (Marketing & Training) from Lucideus, was the chief guest at the opening ceremony. With the blessings of Prof. V. S. Rao, President; Dr. Parimal Mandke, Vice President; and Maj Gen A K Singh (Retd), Dean Student Affairs; the event was marked as an official launch of *siNUoid 2K17* followed by a plethora of technical and non-technical events with non-stop fun. Thereon, the registrations for the amazing workshops and competitions started. The series of events took place with the beginning of technical event named as 'Ring-a-Ring-a-Roses' on 6<sup>th</sup> October, 2017. 7<sup>th</sup> October started with competitions such as Hackathon, CodeJam, Code-In-Emoji, Darwin Games and UI/UXESRI GIS Workshop Google, Lucideus Cyber-security Workshop for the techies. On 8th October, 2017, several events marked the day with the brainstorming events like Error Stack, Mr. Googler, Code-in-Less, Chess Competition and Unity Game Development. The closing ceremony of this fun-filled Fest was enthralling with all the gaming events such as CS GO, FIFA 17 scheduled at night. The Fest with its first event organized in the month of April to the concluding night of 8th October, 2017 came to a wonderful end.

Along with the NUtons several other Engineering Colleges participated in the online events organized for all. This was indeed a stupendous team effort, passing through days of painstaking journey which turned into a successful beginning of the series of Tech-Fests at NU in the coming years.

- **NU VIVIDHA Art Club Annual Exhibition, 2017**

The theme of NU VIVIDHA Art Club Annual Exhibition, 2017 was- “**Koi Baat Nahi Hai**”- Reality Turned into Delusion- chosen to express the ‘Unspoken’ in simple words.

The theme intended to draw attention of the audience towards a lot of issues in the society which are conveniently ignored. The theme was vividly expressed through art. Subjects chosen were as vivid as societies’ view on- love and love marriages; about talent and hobbies and pursuing ones passion; about real beauty of mind and soul. The theme of the year was to accept the facts that are disregarded by our sophisticated society condemning it as wrong or illegal. These issues are hardly talked about; but ironically known to all. Through our paintings, we tried to portray the reality which is turned into delusion. Various art forms were used to express like- Pencil Sketches, Oil Paintings, Charcoal Paintings, Acrylic Paintings & Crafts (Miniatures/Structures).

The guests thoroughly appreciated the bold and unexpected theme of all our art forms. The exhibition lasted for the whole day in working hours (8 a.m.-6 p.m.). The theme brought forward positivity in standing against societal taboos, speaking through art about topics like ‘Depression is not a sign of weakness’ and ‘Unmasking self’, etc. They could easily connect to the work as it reflected the existing society with its dismal norms that were so real and beautifully drawn.

- **IngeNUity 2018**

*IngeNUity*, NIIT University’s biggest Annual Fest was held from 23<sup>rd</sup> to 25<sup>th</sup> March, 2018. The 72 hours event was kicked off with an opening ceremony inaugurated by the NU President- **Prof. V. S. Rao**. DJ Tejas and VJ Prakhar turned the night into a magical one with their amazing mixes. On 24<sup>th</sup> March, 2018, there were various events like Cricket, Nukkad Natak and Stage Play during the day, followed by a fashion show in the evening. Sahil Shah, the famous stand-up comedian also gave a fun filled performance that night. At midnight, an EDM performance by the famous Seezi and Avedo was also organized. The last day of the festival, i.e. 25<sup>th</sup> March, 2018 was fully packed with events and excitement. TALF Poetry Competition was organized during the day, followed by sports events prize distribution. In the evening, the Dance Competition- solo, duet and group performances were organized. Fest came at an end with an enthralling performance by the famous Nayak Band followed by a DJ night.

## 17. Challenges Ahead

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

### CONTACTS

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