

NSUT TIMES

Edition 2.0 | February 2020



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FROM THE DESK OF VICE CHANCELLOR



“

Prof. J.P. Saini

I am happy to welcome all of you back to the lively hustle-bustle of University life in the chilly winter mornings. I hope that as you return, you are rejuvenated to tackle the second half of the year which you might find challenging and rewarding at the same time. Thank you to those who remained at work and to our academic staff who are determined to impart quality education to the students, at all odds. I wish you all well for the second half of our academic programme.

Netaji Subhas University of Technology has always met the enormous expectations of society. We thrive to nurture students of high calibre and change them into capable young professionals and scholars, who can offer solutions to a broad range of real life problems. The holistic culture at the campus is one of a kind. Our curriculum allows students to adapt to the changing and ever evolving technological needs required in the corporate world. Apart from imparting theoretical concepts to students in an easy to grasp manner, the holistic and competitive environment of the campus allows students to widen their horizons and explore their potentials to the fullest, in all walks of life.

It is essential that the country's future corps of students must have a thorough understanding of not only the technical aspects of the curriculum, but also grasp the fuller context of the innovation process. Therefore, I would urge all of you to tap your creative potentials and use technology, research and innovation to truly make India a superpower of this decade.

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FROM THE DESK OF PUBLIC RELATIONS OFFICER

“

Netaji Subhas University of Technology is immensely proud to announce the second edition of the magazine - NSUT Times, an initiative of Alliance. Students from NSUT have made the university proud in various fields, be it in academics, research or extra-curricular activities. We hope this initiative serves as a platform to showcase everything that the university is proud of and also recognizes all the contributions made by the students and faculty across various fields. The first edition successfully delivered on these expectations and we are very excited to share the second edition with the readers which details the events of this academic session.

The faculty and staff at NSUT diligently help the students in all their endeavours and enable them to ultimately achieve their goals. Since last year, NSUT has been expanding exponentially with several exciting programmes and infrastructural changes in the pipeline. We are happy to give more opportunities to the students through these changes and would continue to provide the best resources to the students and faculty to help them realize their dreams. In pursuance to this, NSUT Times would definitely add to the growth of all stakeholders of the university, also providing the readers with a first-hand record of the happenings within the university. Additionally, we hope that this magazine would serve as a medium to connect various academic institutions across the country and create a channel for collaboration across various fronts including but not limited to technical and non-technical ECAs, research collaborations and intercollegiate events.

As remarked before, our prime focus is to create a generation of students that contribute in the field of Science and Technology as well as become a responsible citizen of the country by realizing their potential and the need for its strong implementation in the society, ultimately contributing in nation-building. We also thank the readers for taking an interest in the university's latest affairs and supporting and recognizing us in our mission.

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FROM THE EDITORIAL BOARD

Moving into our junior year, we had a motivation to give back a legacy to the university. A record of everything NSUT yearns for and thus began the bi-annual university magazine - NSUT Times. We are thrilled to present the second edition of the series documenting achievements, events and opinions throughout the odd semester. Throughout the past 10 years at The Alliance, we have always taken pride in being a student-first newspaper within the university, focusing exhaustively on quality and regularity.

We've published 42 editions in the nine years since our founding - the contents of which thrive on the stories of success and failure of the students, life experiences and relationships formed in their university years, popular areas of research for students and opportunities available to them, faculty and alumni interviews, opinions of the students on a multitude of topics that concern them, fests and events organised in the university, and a plethora of articles and information that enables every NSUTian to stay updated with the happenings of our university. As the official newspaper of the institute, we have brought NSIT together. We have carried forward the same zeal and excitement into this relatively new venture. Now we aim to bring NSUT to the rest of the world through NSUT Times.

It would be an understatement to say that life at an engineering institute is extremely adventurous and at times unpredictable, more so in a highly dynamic environment like NSUT. There is always something happening in every nook and corner of the campus. It's very easy to lose track, justifying the need for some kind of formal documentation - acting as a memorabilia not just for the students but for the entire community. Covering all of such events is virtually impossible but we are confident that the following contents of the magazine do a great job in documenting the last few months of 2019 at NSUT. The team has worked hard on the project and invites collaborations, contributions and comments on our work so far.



FEATURED INTERVIEW

Prof. Prerna Gaur



Prof. Prerna Gaur attained her B.Tech degree in Electrical Engineering from GB Pant University of Technology and Agriculture, Pantnagar in 1988, M.Tech from Delhi College of Engineering in 1996 and finally PhD from Delhi University in 2009 in the field of Artificial Intelligence and Control. She has a total of 6 years of industry expertise and more than 25 years of Teaching experience premier institutes like Delhi College Engineering and NSUT, Delhi. Presently she serves as Professor and Head of the Department - Instrumentation and Control and simultaneously handling charge of Director and member Secretary, NSUT-Incubation and Innovation Foundation. Professor Gaur has published more than 100 research papers in International Journals and IEEE Conferences and has mentored more than 100 B.Tech and M.Tech and 14 PhD students. She is Board member of NSUT BoM and also the member of the Board of research studies, NSUT, FOT, DU, IP Univ and YMCA. She has served as a visiting faculty in NIT Delhi, is an Expert of the NBA accreditation team and many committees of AICTE and UGC. Besides teaching, she is actively associated with IEEE (Senior Member and Chair, Delhi Section), ISTE (Life Member), (Fellow) IE and (Fellow) IETE. Currently she is editor of Elsevier Book and also organizing IEEE International Conference INDICON2020 at NSUT between 11th to 13th Dec'2020.

Q) Ma'am given your dedicated involvement in the field of technology and entrepreneurship, what advice you would want to give to students to develop and acumen for the field of entrepreneurship?

With regards to students of NSUT, they already exhibit a strong academic background and are meritorious, so I believe the pool of vast ideas and potential in the field of Technology and Entrepreneurship already exists in NSUT. With NSUT-IIF at NSUT now the necessary environment has been created to foster them. I have personally witnessed the inception and growth of many of these ideas in last three years as the Director and Member Secretary of NSUT-Innovation Foundation (NSUT-IIF). I advise students to develop their ideas in the starting years of their college life and reinforce their knowledge about the field of entrepreneurship by reading books and attending the Expert talks organized at NSUT and listening to these entrepreneurs who share their experiences. After spending a year on their idea the students can come to the Incubation centre for further guidance, here we have a team of experienced mentors who can guide the students on their journey to become a successful entrepreneur. We are always looking forward to and welcome new talents at NSUT-IIF and will be organising a thirteen week Boot Camp for the same by hiring a team- PadUp, the only knowledge partner of Niti Aayog for providing "Incubation as a service" to all Atal Incubation Centres (AIC). It will be a result-oriented program which ensures development as well as funding of various ideas for the prospective attendees upon its completion. The students may receive total funding of roughly 25 Lakhs which may increase depending upon the essence of ideas and its appeal to the Venture Capitalists. We will be shortly releasing the details for the same.

Q) What is NSUT-IIF looking for in the current budding new startups which are longing to establish themselves in 2020? What is the criterion and vision of NSUT-IIF when selecting which startups to fund and nourish under NSUT?

We have both a regularly updated Facebook page (NSUT IIF) and the website (<http://nsutiif.in/>) where all the guidelines and regulations are addressed. Further, the students are welcome to reach out to the IIF office or write an email to nsutiif@nsut.ac.in to seek information pertaining to the same. There is no one size fits all policy when it comes to startups, every idea is unique and hence we assess it on a case by case basis. There are general parameters which we look forward to in an idea which includes: Marketability, Innovation

and Feasibility. When a proposal for an idea is submitted to the IIF, a dedicated panel of Experts assess it in a meeting organised by NSUT-IIF that assess the idea as per the guidelines. The experts then continuously monitor and evaluate whether the idea is substantive enough to be incubated.

Q) NSUT-IIF has a record of incubating a lot of startups such as Readers Crib, an e-commerce marketplace for renting books; CacheFi, Linux smart routers powerful enough to run multiple applications; Triposse, a tech aggregator for bespoke group travel services. So how does NSUT-IIF support these new startups in terms of finance? Does it provide seed money/funding among other incentives?

The Delhi government provides the limited funds to NSUT IIF alongwith stipulated guidelines to create infrastructure and facilitate the startups. IIF provides Rs. 7.5 Lakh to each Startup depending on their incubation. The funding provided is on a performance basis and based on successful outcomes, NSUT-IIF releases the funds for the startups in a phased manner. The MoU/agreement signed between the startups and IIF entails all these details which are signed at the time of incubation. Further, we provide a number of opportunities for mentoring by inviting Experts like Dr. Unnat Pandit, Pankaj Thakkar of PadUp, MatLeob, Vincenzo Peuri from IEEE, Anshoo agrawal of Magic Pin, Greta Malaj from LinkedIn, Alex Choi from Instagram and Rohit Goel to connect the startups to external sources of funds and business enclaves where they can pitch their ideas. In addition, there is pool and access to mentors, to connect them to industry experts and equip them with a fully furnished workspace.

Q) As of January 2019, the then-existing branches were morphed and accommodated under the newly formed Faculty of Information and Communication Technology, Electrical and Mechanical Engineering, Humanities and Social Sciences, Applied Sciences and Interdisciplinary Science. What are the newly reformed measures in the academic sphere which we can look forward to being implemented as of January 2020?

Post the up-gradation of NSIT to university status there has been a plethora of new guidelines, ordinances and regulations pertaining to academics prepared under able guidance of Vice Chancellor, Prof Saini. A certain degree of flexibility has been attained on policy level which enables us to revamp old courses and introduce courses that are relevant to the industry. Many of these initiatives have been implemented or are in the execution phase. These include new courses such as CSAI, MAC, EE, MBA, BBA and MBA - IEV for UG and PG programs. One such example of course in pipeline is MTech in Electrical Engineering with specialisation in AI. We are in the process of recruiting new teachers so we can implement the new courses during the upcoming session.

Q) To accommodate the increased batch strength of over 1400 students due to the positive impact of initiatives like the EWS and new academic courses, the University was in talks of introducing two new campuses - an East and a West Campus in addition to the Dwarka Campus. What are the future endeavours of NSUT in terms of infrastructure?

There have been a lot of steps undertaken by our Hon'ble Vice Chancellor, Prof J P Saini, to accommodate the increase in the batch strength. Roughly 15 Smart Lecture Halls are in process of construction behind the Student's Center, where each hall can accommodate 150 students and one of them has a capacity of 250. As of now, the tentative completion date for the new classrooms is July 2020. We are aiming to host the prestigious INDICON 2020, an IEEE international Conference for which NSUT is the host this year, in the newly constructed lecture halls. Also, the proposal to include two campuses has been sent to the Delhi Government and is in the administrative pipeline.

Q) Apart from academics you have been involved in additional charges including but not limited to IEEE Delhi Section Chair, Director NSUT-IIF and other prestigious posts. How do you maintain your work-life balance as you advance in your work life?

From a young age, I have always abided by the mentality of 'say no to procrastination' and have over the years inculcated in myself the art of living in the moment. I feel that a good end for the day is whenever you go to sleep knowing that you have completed all your tasks at hand and feel a sense of accomplishment for ending the day with a completed checklist.

I would like to advise the students to build a base in practical research for those who are aspiring to pursue MS from India or abroad. NSUT has all the facilities and takes pride in the resources and amenities which are at par with those at celebrated universities in the US. It is advised to start and take the first step in building your modules and projects from the commencement of second year itself so that the workload on the final year eases and results in a project which shows the effort and time well invested.

RESEARCH PUBLICATIONS



Note: This list is based on the entries our team received from the authors in pursuance to the notice and hence is non-exhaustive in nature.

S. Shankar, O. P. Thakur, M. Jayasimhadri

"Impedance spectroscopy and conduction behavior in CoFe₂O₄-BaTiO₃ composites" *Journal of Electronic Materials* (Springer), (published on line 21 October 2019).

Umang Soni, Navjot Singh, Yashish Swami, and Pankaj Deshwal

"A Comparison Study between ANN and ANFIS for the Prediction of Employee Turnover in an Organization." In 2018 International Conference on Computing, Power and Communication Technologies (GUCON), pp. 203-206. IEEE, 2018.

Umang Soni, Akashdeep Roy, Ayush Verma, and Vipul Jain

"Forecasting municipal solid waste generation using artificial intelligence models—a case study in India." Research Article, "Springer Nature Applied Sciences" (Volume 1, Issue 2, pp 109, 2019).

Samiksha Dabas, O. P. Thakur

"Investigation on microstructural properties and the magnetoelectric coefficient of Mn modified BiFeO₃ based solid solutions" *Integrated Ferroelectrics* (Taylor & Francis), ISSN:1607-8489, Nov 2019.

Samiksha Dabas, Manish Kumar, Prachi Chaudhary, O. P. Thakur

"Enhanced magneto-electric coupling and energy storage analysis in Mn modified lead free BiFeO₃-BaTiO₃ solid solutions" *Journal of Applied Physics* (American Institute of Physics), Vol 126, Issue 13, 134102 (2019); published on-line on 2 Oct 2019.

Siddhant Banyal, Kartik Krishna Bharadwaj, Deepak Kumar Sharma

"Probabilistic Routing Protocol with Firefly Particle Swarm Optimisation for Delay Tolerant Networks Enhanced with Chaos Theory", *International Journal of Innovative Computing and Applications*, Special Issue on: Leveraging Opportunistic Networks Using Smart Wireless Digital Devices and IoT for Intelligent Communication Systems: Challenges and Emerging Trends (2020).

Siddhant Banyal, Kartik Krishna Bharadwaj, and Deepak Kumar Sharma

"WoT Enabled Delay Tolerant Networks", chapter 2 in the book titled "Smart Innovation of Web of Things" (Taylor & Francis), ISBN 9780367275655

Prachi Chaudhary, Manish Kumar, Samiksha Dabas, O. P. Thakur

"Enhanced magneto-electric coupling and energy storage analysis in (BiFeO₃-BaTiO₃)/CoFe₂O₄ composites" *Journal of Materials Science: Materials in Electronics* (Springer), 30, Issue 15, pp 13910-13923, Aug 2019, (Published on-line 11 July 2019).

Samiksha Dabas, Prachi Chaudhary, Manish Kumar, S. Shankar, S. Roy, O. P. Thakur

"Structural, energy storage analysis and enhanced magnetoelectric coupling in Mn modified multiferroic BiFeO₃" *Journal of Electronic Materials* (Springer), 48(9), 5785-5796, Jul 2019, Published on-line 25 June 2019.

S. Shankar, O. P. Thakur, M.

Jayasimhadri

"Conductivity behavior and impedance studies in BaTiO₃-CoFe₂O₄ magnetoelectric composites" *Materials Chemistry and Physics* (Elsevier), 234(2019), 110-121, (published on line 1 June 2019).

Samiksha Dabas, Prachi Chaudhary, Manish Kumar, S. Shankar, O. P. Thakur

"Structural, microstructural and multiferroic properties of BiFeO₃-CoFe₂O₄ composites" *Journal of Materials Science: Materials in Electronics* (Springer), Vol 30, Issue 3, pp 2837-2846, Feb 2019, (Published on-line 17 December 2018).

Siddhant Banyal, Kartik Krishna Bharadwaj, and Deepak Kumar Sharma

"Cyber-attack Analysis and Attack Patterns in IoT-enabled Technologies", chapter 7 in the book titled "IoT: Security and Privacy Paradigm" (Taylor & Francis), ISBN 9780367253844

S. Shankar, Manish Kumar, A.K.Ghosh, O. P. Thakur, M. Jayasimhadri

"Anomalous ferroelectricity and strong magnetoelectric coupling in CoFe₂O₄-ferroelectric composites" *Journal of Alloys and Compounds* (Elsevier), Volume 779, 30 March 2019, pages 918-925. (published on-line on 30 November 2018).

S. Shankar, Manish Kumar, Vinita Tuli, O. P. Thakur, M. Jayasimhadri

"Energy storage and magnetoelectric coupling in ferroelectric-ferrite Composites" *Journal of Materials Science: Materials in*

Electronics (Springer), Vol 29, No. 21, 18352-1837, Nov 2018, (published on-line on 30 August 2018).

Vijay Gupta and H. M. Srivastava
"A general family of the Srivastava-Gupta operators preserving linear functions", Research Article, European J. Pure Appl. Math. 11(3) (2018), 575-579.

Vijay Gupta
"Differences of operators of Lupas type", Research Article, Constructive Mathematical Analysis 1(1) (2018), 9-14.

Vijay Gupta, Ana Maria Acu, and N. Malik
"Local and global approximation for certain (p,q)-Durrmeyer type operators", Research Article, Complex Analysis and Operator Theory 12 (8) (2018), 1973-1989.

S G Gal and Vijay Gupta
"Approximation by a Complex Post-Widder Type Operator", Research Article, Analysis in Theory and Applications 34(4) (2018), 297-305.

Vijay Gupta
"Some Examples of Genuine Approximation Operators", Research Article, General Mathematics 26(1) (2018)

Vijay Gupta, Th. M. Rassias, P. N. Agrawal and Meenu Goyal
"Approximation with Certain Genuine Hybrid Operators", Research Article, Filomat 32 (6) (2018). 2335-2348.

Vijay Gupta and Antonio-Jesús López-Moreno
"Phillips operators preserving arbitrary exponential functions, e^{at} and e^{bt} ", Research Article published in "Filomat", 32 (14) (2018). 27.08.2018.

Vijay Gupta and Gancho Tachev
A note on "The differences of two positive linear operators", published in the "Constructive Mathematical Analysis", 2(1) (2019), 1-7.

Vijay Gupta and Deepika Agrawal

"Convergence by modified Post-Widder operators", Research Publication, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas, 113(2)(2019), 1475-1486.

Vijay Gupta and Prerna Maheshwari
"Approximation with certain Post-Widder operators", Research Article published in the "Publications de l'Institut Mathématique", 05(119) (2019), 1-6.

Vijay Gupta, Ana Maria Acu, and Gancho Tachev
"Modified Kantorovich operators with better approximation properties", Research Article published in the "Numerical Algorithm", 81(1) (2019), 125-149.

Vijay Gupta
"General estimates for the difference of operators", Research Article published in the "Computational and Mathematical Methods", 1(2) (2019) e1018

Deepika Agrawal and Vijay Gupta
"Generalized Hybrid Operators Preserving Exponential Functions", Research Article, Asian-European J. Math. 12 (1) (2019), 1950085 (11 pages).

Vijay Gupta, A M Acu, and G. Tachev
"Better numerical approximation by Durrmeyer type operators", Research Article, "Results Math. 74 (90) (2019),

Vijay Gupta
"On difference of operators with applications to Szász type operators", Research Publication, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas, 113 (3) (2019), 2059-2071.

Vijay Gupta, Danyal Soybas, and Gancho Tachev
"Improved approximation on Durrmeyer type operators", Research Article published in the "Boletín de la Sociedad Matemática Mexicana", 25(2) (2019), 363-373.

Vijay Gupta
A note on "General family of operators preserving linear functions", published in the "Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas", 113 (4) (2019), 3717-3725.

Vijay Gupta and Ana Maria Acu
"Difference of operators with different basis functions", Research Article, Filomat 33 (10) (2019), 3023-3034.

Vijay Gupta and M. T. Rassias
"Moments of Linear Positive Operators and Approximation", Book Published as a part of the Springer Series: "SpringerBriefs in Mathematics", Springer Nature Switzerland AG (2019).

Apoorva Aggarwal, Manjeet Kumar, and Tarun K. Rawat.
"Design of 2-Dimensional FIR Filters With Quadrantly Symmetric Properties Using the 2-D L1-Method", Research Article, "IET Signal Processing 13", Issue-3 (2019): 262-270.

Pradeep Khanna, Shubham Kumar, and Ashi
"Development of a Smart Identification and Sorting System", Research Paper published at the "World Congress of Engineering and Computer Science, 2018".

Shrishti Trivedi, Sahil Bhola, Archit Talegaonkar, Shreya Sharma, and Prerna Gaur
"Predictive Maintenance of Air Conditioning Systems Using Supervised Machine Learning", Research Article published in the "20th International Conference Intelligent Systems Applications to Power Systems (ISAP)", pp. 154-159. IEEE, 2019.

Kartik Singhal
"Differentiation of Mamdani and Sugeno Fuzzy Inference System in Developing Automatic Plant Watering Systems for Domestic Use", Research Article published in the "International Journal of Innovative Technology and Exploring Engineering Regular

Issue", vol. 9, no. 1, 2019, pp. 5202-5209., doi:10.35940/ijitee.a9232.119119.

Siddhant Banyal, Kartik Krishna Bharadwaj, and Deepak Kumar Sharma

"Blockchain Enabled Security and Privacy Schemes in IoT Technologies", chapter 1 in the book "Handbook of IoT and Blockchain: Methods, Solutions, and Recent Advancements" (Taylor & Francis)

Sandeep Singh, Alaknanda Ashok, Manjeet Kumar, Tarun K. Rawat

"Adaptive Infinite Impulse Response System Identification Using Teacher Learner Based Optimization Algorithm", Research Article, Applied Intelligence (Springer)49, Issue-5 (2019): 1785-1802. doi.org/10.1007/s10489-018-1354-4.

Usha Gautam, Tarun Kumar Rawat

"The Optimal Design and Analysis of Wideband Second-order Microwave Integrator", Research Article, International Journal of Microwave and Wireless Technologies (Cambridge University Press)11, Issue-3(2019): 227-236. DOI: <https://doi.org/10.1017/S1759078719000047>.

Abhay Sharma, Tarun Kumar Rawat

"Design and FPGA Implementation of Lattice Wave Fractional Order Digital Differentiator", Research Article, Microelectronics Journal(Elsevier)88, (2019):67-68 doi.org/10.1016/j.mejo.2019.04.013.

Om Prakash Goswami, Tarun Kumar Rawat, and Dharmendra Kumar Upadhyay

"A Novel Approach for the Design

of Optimum IIR Differentiators using Fractional Interpolation", Research Article, Circuits, Systems and Signal Processing, (Springer), (2019).

Deepak Sharma, Swati Singh, Vishakha Gautam, Shubham Kumaram, Mehul Sharma, Shrid Pant

"An Efficient Routing Protocol for Social Opportunistic Networks Using Ant Routing", Research Article, IET Networks, 2019, 14pp. DOI: 10.1049/iet-net.2019.0077, Print ISSN 2047-4954, Online ISSN 2047-4962

Umang Soni

"Analyzing Risk in Dynamic Supply Chains Using Hybrid Fuzzy AHP Model." In Applications of Artificial Intelligence Techniques in Engineering, pp. 411-420. Springer, Singapore, 2019.

Gautam Seth, Abhay K Prithvi, Arpit Paruthi, Saksham Jain, and Umang Soni

"Prediction of PhotoVoltaic Power Generation Using Monte Carlo Simulation." In Data and Communication Networks, pp. 279-289. Springer, Singapore, 2019.

Saksham Jain, Shreya Agarwal, Arpit Paruthi, Ayush Trivedi, and Umang Soni

"Neural Networks for Mobile Data Usage Prediction in Singapore." In International Conference on Innovative Computing and Communications, pp. 349-357. Springer, Singapore, 2019.

Aditya Chawla, Amrita Singh, Aditya Lamba, Naman Ganwani, and Umang Soni

"Demand Forecasting Using Artificial Neural Networks—A Case Study of American Retail Corpo-

ration." In Applications of Artificial Intelligence Techniques in Engineering, pp. 79-89. Springer, Singapore, 2019.

Aditya Gautam, Surya Prakash, and Umang Soni

"Supply chain risk management and quality: a case study and analysis of Indian automotive industry." International Journal of Intelligent Enterprise 5, no. 1-2 (2018): 194-212.

Pradeep Khanna, Niyajudin, and Gantavya Vivek Punj

"Development of Mathematical Models to Analyse and Predict Weld Bead Geometry and Shape Relationships in FCA Welding of C-45 Mild Steel", Research Article, Indian Welding Journal of the Indian Institute of Welding, volume 51, issue 04, year 2018. DOI: 10.22486/iwj/2018/v51/i4/176798.

Batra, D., Diwan, N., Upadhyay, U., Kalra, J.S., Sharma, T., Sharma, A.K., Khanna, D., Marwah, J.S., Kalathil, S., Singh, N. and Tuwani, R.

"RecipeDB: A Resource for Exploring Recipes", Research Article, available at SSRN 3482237.

Jushaan Kalra, Devansh Batra, Nirav Diwan, and Ganesh Bagler

"Nutritional Profile Estimation in Cooking Recipes" Accepted at 36th IEEE International Conference on Data Engineering (2020).

Nirav Diwan, Devansh Batra and Bagler, Ganesh

"A Named Entity Based Approach to Model Recipes" Accepted at 36th IEEE International Conference on Data Engineering (2020).

ACHIEVEMENTS

India Innovation Challenge Design Contest 2018

Anshika Jain and Prachi Bansal, under the guidance of Dr. Pradeep Khanna, secured a rank in the top 10 teams in India Innovation Challenge Design Contest (IICDC) 2018 organised by DST & Texas Instruments and anchored by NSRCEL at IIM Bangalore. They received the opportunity to take our startup idea from lab to the market, and were supported by funds amounting to INR 20 lakhs, an incubation centre at the NSRCEL which is the innovation and entrepreneurship hub at IIM Bangalore. They also received technical mentorship from Texas Instruments' engineers along with access to their cutting edge tools and technology.

Shri Vinayak M. Deshpande Young Scientist Award

Dr. Shilpa Sharma from the department of BSE of NSUT has been awarded prestigious Shri Vinayak M. Deshpande Young Scientist Award for her contributions to Chitin and Chitosan Research at 8th Indian Chitin and Chitosan Society Symposium that was held at ICT Mumbai on the 19th and the 20th September, 2019. The Chitin and Chitosan Society, initiated in 2009, mainly focuses on promoting cutting edge technological advancements in areas that involve chitin, chitosan and its derivatives.

CAT 2020

The following is the list of scores received by the students and alumni of NSUT in CAT 2020.

- Devansh Jain Nawal (COE 2020) **99.96**
- Ayush Gupta (ICE 2020) **99.78**
- Archit Gupta (ECE 2018) **99.77**
- Samuel Peter (ECE 2017) **99.74**
- Ayush Grover (ICE 2020) **99.70**
- Akash Sinha (MPAE 2020) **99.57**
- Niketan Nath (COE 2020) **99.5**
- Arunima Mitra (IT 2020) **99.16**
- Isha Verma (ICE 2020) **99.1**
- Manan Manwani (IT 2020) **99.09**
- Rishabh Gupta (ECE 2018) **99.09**
- Rahul Lohia (IT 2019) **99.08**
- Saksham Mahajan (MPAE 2019) **99.03**
- Shaurya Prasad (MPAE 2020) **98.94**
- Mohak Chawla (MPAE 2018) **98.11**
- Kalpesh Meshram (ECE 2019) **97**

Harvard National Model United Nations 2020 | Boston, USA

Harvard National Model United Nations (HNMUN) is the longest-running collegiate Model United Nations simulation in the world and among the largest in the United States. HNMUN is an annual four-day event held in February which is attended by nearly 3000 delegates from more than 100 countries and the conference is attended by top diplomats and UN officials from across the globe. Delegation 2020 comprised of Sanskriti Kocher, Advik Jain, Dharmanshu Dubey, Pawan Singh, Shefali Kansal, Aditi Gupta, Anav Choudhary, Arjun Singh, Rahul Sharma, Saumya Gupta, Sai Ganesh Tadimeti and Yajas Sardana. The delegation won Diplomatic Commendation in the committee UNHCR represented by Pawan Singh as Austria.



SOCIETY ACHIEVEMENTS



NSUT Quiz Club



- Ankit Jain and Aniket Verma, have won the preliminary rounds of Airtel TechQ, the prestigious national-level telecom and technology quiz competition. The preliminary round saw immense participation from about 100+ teams.
- Aditya Barthwal and Vishesh Balani secured the second position at the general quiz held as a part of JMC's annual fest, Montage.
- Aniket Verma secured the first position at the annual general quiz held at Kamla Nehru College.
- Harshit Luthra and Mudit Bhardwaj secured the third position at the general quiz held at Sri Venkateshwara College.
- Aditya Barthwal secured the third position at the general quiz and won the Season of Shows quiz organised by MAIT.
- Mudit Bhardwaj secured the third position at the Open Barefoot Sports Quiz.
- Aniket Verma secured the first position at the MELA quiz held at DTU as a part of their annual fest, Engifest.
- Aniket Verma secured the third position at the MELA quiz held at Dyal Singh College.
- Manad Gupta and Aniket Verma secured the first position at the Breaking Bad Quiz held at PGDAV college.
- Aniket Verma and Ankit Jain secured the third position at the general quiz held at Maulana Azad Medical College.
- Mudit Bhardwaj secured the third position at the Sports Quiz held at Shaheed Sukhdev College of Business Studies.
- Vidit Bhargava and Harshit Luthra secured the third position at the Business Quiz held at Ram Lal Anand College.
- Rahul Khanna, Vidit Bhargava and Harshit Luthra secured the first position at the Tech Quiz held at Deen Dayal Upadhyaya College.
- Manad Gupta, Aniket Verma and Ankit Jain secured the third position at the Open Entertainment Quiz held at University College of Medical Sciences.

ARES Robotics

Selected to participate in the finals of Indian Rover Challenge– a prestigious competition organised by Mars Society South Asia– witnessing competition from 20 other teams selected from India, Poland and Bangladesh. Here is the team which made us all proud:

Sanuj Kulshrestha, Aman Khullar, Deepak Singh, Shiv Kumar, Abhinav Gupta, Shashank Vishwanath Adhikarla, Siddhant Banyal, Kartik Krishna Bhardwaj, Sanyam Jain, Kushagra Dixit, Devansh Batra, Akhil Vaid, Nishant Chahar, Dhananjay Gambhir, Vivek Kumar, Ujjwal Aggrawal, Jitmanyu Anand, Abhinav Goel, Mayank Pandit, Manan Madan, Nipunika Hudia, Gaurav, Saurabh Yewale, Satvik Sharma, Vaidehee Thakur, Milind Jain, Anshita Goel



MIRAGE



Mirage - The Western Dance Crew of NSUT participated at SpringFest 2020, organised by IIT Kharagpur, and successfully bagged the third position in the group dance competition, Centrifuge, after competing in intense battles with the other teams.

DRAMATICS

Ashwamedh Stage

Adhiti Shaili was awarded the Best Actor at the Khwabeeda drama competition hosted by The Dramatics Society of Mata Sundari College for Women for her role as Benare Bai in Khamosh, Adaalat Jari Hai.

Sukrit Mahajan was awarded the Best Actor at Inter-Rajpal, the dramatics competition hosted by The Shakespeare Society of St. Stephen's College while Priya Chugh won the 'Best Actor' award at DTU's Engifest for her role of Isla Rose in the adaptation of Dougie Blaxland's Never Any Fruit. The play also was also selected to be performed at Unlearn Studio.

Ishan Bhardwaj won the best actor award at Befikr, the stage play competition hosted by IIIT Delhi for his role of Dom Raja in Muktibodh, an annual production based on an original play written by Akshay Girdhar, Harsh Vardhan Kumar and Mudit Khandelwal. The play was chosen to be showcased at Akshara theatre (Saitan Theatre Festival 4.0), India Habitat Center (Old World Collegiate Theatre Festival), and Sree Ram Center for Performing Arts. They will also be performing in the Kolkata leg for Atelier's ACT Festival.

Ishan Bharadwaj (Dom Raja) and Dhwal Rajora (Hari) also won the awards for second best actor and second best supporting actor respectively at the Noida Rang Mohatsav organised by the National School of Drama.

Ashwamedh Street

Ashwamedh's Street performed at Tamasha, the annual street play event of Malviya National Institute of Technology, Jaipur and they successfully bagged the second position for their annual production, Highway; a play that revolves around drug abuse.

The event saw participation of over 20 teams from all across Rajasthan, Gujarat and Delhi.



Odd Semester	
Sports	Medal
IIT BHU 2019	
Girls	
Kabaddi	Silver
Aquatics:	
• 50m freestyle	Silver (Kopal)
• 50m backstroke	Gold (Kopal)
<i>Kopal was awarded the prize for the Best Swimmer</i>	
Triquetra 2019 (IIIT Delhi)	
Girls	
Athletics:	
• 100m	Silver
• 200m	Bronze
• 400m	Silver
• 400m	Bronze
• 800m	Bronze
• Relay 4x100	Gold
• Relay 4x400	Silver
• Long jump	Gold
• Long jump	Silver
Boys	
Volleyball	Silver
Football	Silver
Badminton	Gold
Athletics:	
• 1500m	Bronze
• 800m	Bronze
Even Semester	
SRCC 2020	
Boys	
Table tennis	1st runners up
IIIT Allahabad 2020	
Girls	
Aquatics:	
• 25m freestyle	Gold (Laksha)
• 50m freestyle	Gold (Laksha)
• 25m backstroke	Gold (Laksha)
Kabaddi	Gold
Athletics:	
• 400m race	Silver
• 800m	Gold (Renu yadav)
• 800m	Silver (Pragati)

• Long jump	Gold (Khushboo Gahlawat)
• Long jump	Silver (Pragati)
• Hurdle race 110m	Gold
• Disc throw	Silver (Veena Yadav)
• Powerlifting	Gold (Harshita)
• Relay race 4x400m	Gold (Khushboo, Mansi Dahiya, Pragati)
Badminton	Silver (Sunitha, Nupur, Mehak)
Boys	
Kabbadi	Gold
Table Tennis	Gold
Athletics:	
• Long jump	Silver (Jai)
• 800m	Bronze (Jai)
• Long jump	Silver (Anurag Verma)
• 400m	Bronze (Rajat Solanki)
• 4x400m relay	Gold
• 3000m	Silver
• 1500m	Silver (Ankur Rathi)
• 3000m	Gold
• 4x400m relay	Gold (Rajat, Abhinav, Ankur, Sourav)
Badminton	Gold (Raghav, Himanshu, Agrim, Harsh, Yashvardhan)
Football	Gold
<i>Vikram Choudhary awarded the prize for best football player of the tournament</i>	
Basketball	Gold
<i>Manas Upreti awarded the prize for best basketball player of the tournament</i>	
Badminton	Gold (Raghav, Himanshu, Agrim, Harsh, Yashvardhan)
Swimming:	
• 4x25 relay	Bronze
• Butterfly	Bronze (Jaivin)
• 25m backstroke	Silver (P.L. Atee Chakma)
• 4x25 medley relay	Bronze (Anurag, Jaivin, Vivek, Sudhan-shu)
Powerlifting:	• Rahul Raghav (under 68) - Bronze
	• Mihir Singh(under 85 kg) - Gold
	• Sahil (under 77 kg) - Gold
	• Mohit (under 60 kg) - Gold



The Debating Society of NSUT

A. Model United Nations Conferences

Conference	Name	Awards
Symbiosis Law School Model United Nations	Rahul Sharma	High Commendation
	Avil Goel	Honourable Mention
	Ridam Srivastava	Honourable Mention
Quintessence Model United Nations	Arnav Balyan	Special Mention
	Parth Sarthi Prasad	Verbal Commendation
	Shubham	Verbal Commendation
Atma Ram Sanatan Dharma Youth Conclave	Sarthak Shukla	Special Mention
	Avil Goel	Special Mention
	Ayush Kokande	Special Mention
Symbiosis Model United Nations Conference	Saumya Singh	Honourable Mention
	Mitansh Khurana	Honourable Mention
	Akshit Pareek	Special Mention
	Vaibhav Sharma	Special Mention
	Dhruv Bhardwaj	Special Mention
	Ayush Kumar	Special Mention
	T. Sai Ganesh	Verbal Commendation
ISBF Model United Nations Conference	Satwik Bhardwaj	Special Mention
	Prachi Garg	Verbal Commendation
DelTech Model United Nations	Pawan Singh	Special Mention
College of Vocational Studies Model United Nations	Shubham	Best Delegate
	Daksh Gupta	High Commendation
	Sarthak Shukla	Special Mention
	Ashutosh Verma	Special Mention
Jesus & Mary College Model United Nations	Pawan Singh	High Commendation
	Advik Jain	Special Mention
	Shefali Kansal	Special Mention
	Rahul Sharma	Special Mention
	Arjun Singh	Special Mention
	Dharmanshu Dubey	Special Mention
	Aditi Gupta	Honourable Mention
Amity International Model United Nations	Best Delegation	
	Vaibhav Sharma	Best Delegate
	Dharmanshu Dubey	High Commendation
	Siddhant Banyal	Special Mention
	Kritika Anuragi	Special Mention
	Sanskriti Kocher	Special Mention
	Advik Jain	Special Mention
	Mayank Ranjan	Special Mention
	Ananya Gupta	Special Mention
	Saumya Gupta	Special Mention
	Sahil Chawla	Verbal Commendation
Charcha - The Youth Symposium of Rajdhani College	Best Delegation	
	Mitansh Khurana	Best Delegate
	Ayush Kokande	High Commendation
	Ayush Kumar	Honourable Mention
	Rakshit Jain	Honourable Mention
	Snigdha Arora	Verbal Commendation

Valour Model United Nations	Best Delegation	
	Shrirang Khachane	High Commendation
	Nischay Verma	Best Journalist
	Shreya	Special Mention
	Kartik Singhal	Special Mention
	Shreyans Jain	Honourable Mention
	Aashray Kapoor	Verbal Commendation
	Akshit Pareek	Verbal Commendation
	Avil Goel	Verbal Commendation
Kirori Mal College Model United Nations	Mitansh Khurana	High Commendation
	Piyush Seghal	Special Mention
	Venkata Rohit	Verbal Commendation
SRM Model United Nations Conference	Pranav	High Commendation
	Dhairya Yadav	High Commendation
	Devang Anuragi	Best First Timer
	Ishika	Best First Timer Photographer
	Jarul	Verbal Commendation
	Harsh	Verbal Commendation
Lady Shri Ram Model United Nations	Shubham	Verbal Commendation

B. Parliamentary Debating Tournaments

Tournament	Name	Achievement
Amity Asian Parliamentary Debate	Tushar Renjhen	Broke as an adjudicator with an average of 9.41/10
CBS Parliamentary Debate	Tushar Renjhen	Broke as an adjudicator with an average of 9.50/10
Taqreer 2v2 Asian Parliamentary Debate	Nimish Dham	Broke as an adjudicator with an average of above 9.43/10
Axiom - Annual Parliamentary Debate of JDMC	Nimish Dham	Broke as an adjudicator with an average of 9.55/10



WHAT AFTER COLLEGE?

Krishna Singh



UPSC AIR 181, IPS Officer
(Division of Computer
Engineering, Batch of 2015)

Q1) Considering the fact that at NSUT(NSIT), an internship and placement generally are seen as the most important goals by students, should one first test the water by working in an organization or straightway drop out of college after the final year and devote oneself completely to studies if they have UPSC ambitions?

I feel both the options have their own advantages. I too was in a similar dilemma back in my college days and choose not to take placements. I didn't clear the mains in my first attempt and eventually took up a job. Consequently, I cleared the exam while working. Having seen both sides of the spectrum, I feel that a job experience helps in enriching one's personality and hedges against the potential risks associated with this exam. Yet, the foundational preparation for CSE does require some full-time efforts. So the general rule of thumb is that if you want to experiment with corporate jobs or higher education, please do early in your career. Also, don't take very long breaks just to prepare for this exam. If one doesn't clear in an attempt or two, it's always wise to take up a job and prepare.

Q2) What was your preparation strategy? What resources did you refer?

Since I was working while preparing for the exam, I

focused more on managing time effectively and balancing between work and preparation. I tried to devote 4-5 hours on most of the days while fully utilising the weekends. I referred to the standard sources like NCERTs and other textbooks as suggested by the toppers. More than the resources, what matters is effectively articulating what you know to the examiner. I focused a lot on making concise short notes and doing answer-writing.

Q3) What was your optional subject what was your reason for choosing it?

My optional subject was Political Science & International Relations. I choose this subject primarily because of my interest and ability to comprehend the subject-matter and articulate it effectively before the examiner. All optionals are scoring and one shouldn't pay heed to what others say about scorability of subjects.

Q4) The UPSC exam lasts for a year, first the preliminary exam, then the mains followed by the interview? How can one keep oneself motivated throughout the year, for the whole process?

To keep oneself motivated, one should always keep the "reason" (for appearing in the exam) in mind. While the exam cycle is in itself a year long journey, for most people, including me, it becomes longer after some failures. Don't make this exam your life and rather, see this as a process of improving yourself. Enjoy the work that you are doing (if you have taken up any job in government, corporate, or some NGO) and take the exam with an open mind.

Q5) Any important piece of advice to all those planning to appear for UPSC?

There are many. Never be overwhelmed by the immense competition. Don't seek strategies, rather try to build your own. Do a lot of practice - mocks for prelims, answer-writing for mains, and mock interviews for interview. Have your backup plan ready.

Q6) Where do you see yourself 5 years down the line?

Too difficult a question. I have been allocated to the IPS. So probably, working in some district in India, implementing all my knowledge of AI and finance, in the complex maze of policing.

Q1) While pursuing your B.E. in ICE, how did you make up your mind to pursue a PhD in Biomedical Engineering? What role did NSUT(NSIT) play in this process?

NSIT traditionally gives you a lot of time to venture beyond classes and ICE is one of the branches which really benefits from it. Given the vast range of courses in ICE, it is almost an expedition to find what you like. In my second year, I joined the biomedical lab under Dr Vijander Singh and Dr Shivangi Agarwal at NSIT to explore the field. In the meantime, I also tried to intern or try my hand in other short term projects from different fields. This helped me make a more cogent decision about my PhD.

Q2) Once you made up your mind about further studies, how did you build your profile for getting admission into a distinguished institution like the Carnegie Mellon

I never really worked towards building my profile actively. It is something that happened over time as I dabbled in projects and then started seriously investing time in my projects. I was lucky to have mentors at NSIT who pushed me to write papers and get a hang of research. The BTP and summer internships also greatly helped me plan my path (and my CV). I guess, to answer the question, making the most of the “free time” and the summers (curricular or extra curricular) is what helps you plan for the future. Take initiative, send that email to that professor you want to work with, it never hurts.

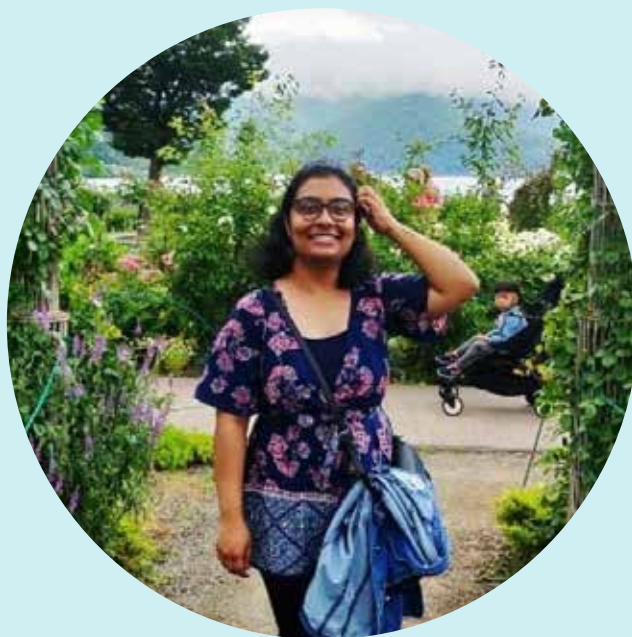
Q3) What are the options available to a student who wishes to pursue graduate studies in the fields of Mechanical, Robotics and Control Engineering abroad?

The options, irrespective of the field, are plenty. I think the hard lines of ‘fields’ really blur as one moves to grad school and beyond. What helps the most to get there would be projects and papers in the broad field you are applying to. Try and get some research or work experience in the field you want to apply to such that your CV/Resume reflects the passion for the subject you mention on your SOPs.

Q4) What are the upcoming prospects and opportunities you are looking up to, in industry and academia after completing your doctorate?

I am pursuing my Doctoral degree in Biomedical so I would be able to speak only for that. Post PhD, one can choose to stay in academia and work towards becoming a professor. One can also join industry for R&D. Niche companies also actively search for doctorates to run their research labs. Finally, one can also

Deepshikha Acharya



PhD Candidate, Department of
Biomedical Engineering at Carnegie
Mellon University
(Division of Instrumentation and
Control Engineering, Batch of 2016)

choose to be a research clinician and work in hospital R&D. If in the USA, you can also choose to shift to an administrative position by working for the FDA or NIH or NSF. Similarly in India, you can work for any government branch working in the field and looking for biomedical experts.

Q5) Can you help the students answer their impasse of whether to do a corporate job or pursue higher studies?

This is a constant dilemma which you yourself will answer during undergrad or soon after. This dilemma also depends a lot on opportunities available at that time. I would suggest taking life as it comes and working towards a bigger goal (whatever you want to do academia or industry). Take the opportunities you have and mould them to suit your dream. Also, don't be afraid to change your next step dynamically. Maybe you really like your job in a company you never thought you would join and now you want to do something totally different. It's fine to try a lot of things before you settle on one.

Q6) Where do you see yourself 5 years down the line ?

Hopefully done with my PhD!

Sidhant Khanna



Investment Analyst at IFC
International Finance Corporation
(Division of Instrumentation and
Control Engineering, Batch of 2015)

Q1) How did you prepare and set up your profile for World Bank?

I am grateful to have started my career at JP Morgan's Investment Banking team right after NSIT. Back in 2014 - it seemed the entire world conspired for me to take up a job in Finance - be it a plethora of i-banks visiting campus (Barclays, Nomura, JP Morgan) or the release of Wolf of Wall Street before the placement season.

JP Morgan addressed my predisposition for workaholicism, and I learnt the basics of Corporate Finance and Financial modelling while on the job. My stints at the London office helped me drop my "chalta hai" attitude and I genuinely enjoyed working in an International Environment.

However, life took a turn while I was backpacking Europe. I had this breakdown when my eyes went to this Syrian family sitting on a pavement - it looked well-off and educated, but it looked helpless without a roof or shelter. I had this "ZNMD-like" epiphany where I reconsidered my materialistic lifestyle and decided that "I cannot live in a box".

Some on-ground volunteer work followed, coupled with a stint at a Venture Capital firm, and I found my career take a detour towards Development Finance. 11 interviews and 18 months of anxiety later I found myself in Africa - working with the World Bank. I am working in the Investing arm of the World Bank called Investment Finance Corporation (IFC).

Q2) Can you help the students answer their plight of whether to do a corporate job or pursue higher studies?

I think it is a very personal choice - there is no right or wrong answer. There are people who want to make the best use of placements (Placement cell does a fantastic job by the way!) and then there are people who want to finish their education at an early age. You have to believe in something.

While the tech companies that visit NSUT are great and pay fat packages, I believe that most non-tech companies that visit campus are glorified middle office jobs. If you see yourself in India, it makes sense to do an MBA early, and get a good front-office role.

In my case, I wanted to leverage brand NSUT, and figure out what I could see myself doing when I turn 40. So I was willing to experiment before my masters and I am glad that I have tried Investment Banking, Venture Capital, and Development Finance.

I am 27 now, and most of my friends fall in one of the three categories - people who have done their Indian MBA and plan to get married soon, people going for a foreign MBA and have taken truck loads on loan, or lastly those don't care about masters and are married already! I identify with none of them. People have their own timing for Masters, and I do not feel I am ready yet.

Q3) How is corporate life? Workload, peers, seniors, hardships etc

When you are in college, you are healthy and have plenty of time in hand, but you don't have money. It's the opposite in corporate life. Work you do is certainly not as intellectually stimulating or rigorous as solving HC Verma problems during engineering prep!

But I enjoy how people from different backgrounds have different angles of attacking a problem. As engineers we end up becoming linear thinkers, so I do appreciate the diversity offered by people from different nationalities or educational backgrounds (CAs, lawyers et. al.).

Q4) How should a student prepare his profile for non-tech companies?

"Pehle engineering ki, fir MBA kiya, ab bank mein naurki kar raha hai. Agar bank mein hi naukri karna tha, toh fir engineering kyun kiya?"

I really enjoyed this line in 3 idiots. I really wanted to go for an MS after NSIT! But the claustrophobia of working in the Instrumentation lab got to me and I realized I am not meant for Engineering. I am glad I gave my field of engineering a chance before I decided not to pursue it any further.

If there is one takeaway I have from my engineering degree, it is that Engineers should build something that has a lasting impact. It applies for making a suitable profile for non-tech companies too build a new

society, start a new initiative in an existing society, or make our college fest (Moksha) the biggest fest in college circuit! In my case - we started a new initiative "NSIT to Wall Street" at Alliance because I was passionate about banking, and I ensured we started winning HNMUN again (after 3 years of draught) despite going as underdogs. I still talk about these things in my interviews, 4 years after graduating from college! I don't like legacy societies - in the long run they build a brand of followers and not leaders. Back in 2011, 5 new societies would be created every year, of which only 2 would survive. I don't see new societies or initiatives coming from the current students. Organizing a fest for the sake of it, or joining IEEE with the herd, or going to HNMUN is not going to change your life. It

is about the people (both senior and junior) you connect with in college, your shared experiences with them, and most importantly how you maintain those relationships.

Q5) Where do you see yourself in 5 years?

In Canada with 4 kids! Kidding. Nairobi is my fifth city in five years - after Mumbai, London, Bangalore, and Addis Ababa, so I don't know where I will end. My brain is wired a weird way - it understands geograaBut I have recognized Finance as my field of interest. Now which niche to build - be it in Investment Banking, Venture Capital, or Development Finance, is something I am still trying to figure out.

Q1) Can you help the students answer their dilemma of whether to do a corporate job or pursue higher studies?

Unfortunately, there's no clear answer on this. One has to gather all the possible information and go with his or her gut and then, commit to whatever decision has been made. If you have been enjoying academics and feel like you can do with more of it (and comfortably afford it), you may want to go for higher studies. But if you are someone who'd rather want to start making money right away and gain work experience, you should go for a job.

One thing that most of us don't realize while we are in college is that life is long, and that we'll get multiple opportunities to course-correct if we believe we had taken an incorrect decision while graduating. You can, for instance, pursue higher studies even after 2-3 years of work ex.

At the end, what really matters is your self belief and your ability to back yourself without regretting your decisions.

In my class of IT, I had colleagues who took up corporate jobs, have spent more than a decade there, and are content with life. On the other hand, you have people like me, who've worked in more than 7-8 companies in almost every continent on the planet. While I am happy where I am today, I do sometimes envy the easy, settled life of some of my colleagues. It hasn't been easy, and the ups and downs do take a lot out of you, but at the same time, the adventure and exposure seems worth it. So, it's really up to the individual what they really value.

If I were to give a suggestion without knowing much about a person's talent, economic status or ambitions, I'd suggest gaining a couple of years of experience and then going for higher studies if you can get into a renowned institution in a place like the US, Europe or Singapore as it gives you a global exposure, new perspectives and the time to figure out what you really want in life.

Durgesh Kaushik



Head of India Market at Snapchat
(Department of Information
Technology, Batch of 2006)

Q2) Please share with the readers all the tasks involved in the process, from appearing in GMAT to getting selected at UC Irvine?

I never really planned for GMAT. But my flatmate and NSIT classmate, Abhishek Arora kind of forced me to appear for GMAT (So, I owe a lot of what I've achieved to him). However, I couldn't spend a lot of time preparing for the GMAT because of a busy work schedule and lack of motivation. I did manage to get a reasonable 96%ile, which was enough to apply for an MBA in the USA. I got through a few schools and ended up choosing UC Irvine because of the location and the fact that UC System provides with an amazing educational infrastructure (they have almost a \$40B annual

budget). However, it's hard to get into top business schools if you don't have a unique background and have done things that make you stand out. For instance, if you've had a somewhat successful startup, or have a patent in your name or have done something out of the box, you could get into Harvard or Stanford even with an average GMAT score. On the other hand, if you are from the most competitive pool called IIM (Indian - IT - Male), a score of 800/800 might not be good enough to get you into the top schools. So, my recommendation is to work hard for a couple of years in whatever company or start-up or NGO you are working for and applying when you believe you have a story to tell.

Q3) How would you compare pursuing masters in India vis-à-vis abroad, in terms of experience, exposure, expenditure and opportunities?

My MBA class had students from 20+ countries, with doctors, scientists, singers etc. who were passionate about business. In fact, one of my classmates was in the US army and had just returned from Afghanistan after fighting the Taliban. What this means is that you get to hear so many different perspectives that your knowledge of the world increases exponentially. You learn more from your classmates than from your professors.

Q4) What advice would you like to give to students at NSIT who are interested in pursuing your field?

If you want to get into marketing, the most important thing is to understand the very fundamentals of marketing before pursuing the tactics of marketing. There are several books and case studies that are available online for you to understand marketing. Once you've done that, you can start to learn digital marketing (SEO, SEM, Email, mobile marketing, marketing automation etc.), branding, B2B and B2C marketing. Once you've gained the theoretical knowledge, my recommendation is to find a start-up that needs help with marketing and offer them your help without worrying too much about the compensation. This experience is going to go a long way in building a solid foundation for your career in marketing.

Here are some tips for pursuing marketing as a career: <https://learning.iimjobs.com/getinspired/>

Q5) How is working for big social media companies like Facebook Snapchat in terms of workload, ambience, peers, seniors, perks, hardships and how would you rate Snapchat's potential in India?

You get a lot of attention when you work for companies that are really sought after. I was one of the first Indians (the first NSITian as well) to join Facebook in a business role, so I received a lot of visibility among FB's competitors who wanted to poach me, and from people who wanted to work at FB. Also, the perks and benefits were world class and it's easy to get spoiled. But at the same time, the company had a grand vision of making the world more open and connected, and this kept me on my toes so I could contribute to the realization of this vision.

I am Snapchat's first employee in India (and in Asia), and I started the India operations in April of 2019. Since then, we've seen tremendous growth in India. We've grown our user base by over 80% year on year, have opened our first office in India and have developed key partnerships. Snapchat's future in India is really bright given it's a platform for close friends who love communicating visually and Indians by nature, are social and value their relationships. A platform like Snapchat that doesn't have likes and comments, allows people to communicate freely without any social pressure and is quickly becoming the default communication platform for the Indian youth.

Q6) Where do you see yourself 5 years down the line ?

I have mostly focused on doing the best I can do today and have believed that my "5 years down the line" would be taken care of if I give my best shot to whatever I am working on today. Whenever I've tried to predict my future, even 1 year down the line, I've been surprised with where I have actually ended up. So, I don't predict my own future anymore.



Letter to the Prospective Interns

One of the first few feelings most of us encountered on joining the college was pure awe- owing to the reputation of the college having the best companies visiting its campus looking for prospective interns and employees. Such is the aura present around the name NSUT. We all joined the college with high hopes and aspirations, seeking internships and subsequent placements in highly coveted companies. Not much later, we find ourselves asking our seniors for advice, and worrying over the competition both quantitatively and qualitatively.

At this particular stage we often find ourselves lost in the umpteen methods of preparing for the tests and interviews. It is indeed tough to realise what we need to do in order to achieve precisely what we aimed for. However, fret not for we asked a couple of seniors interning in reputed companies the solution to this particular question nagging every freshman and sophomore's mind. For the purpose of this article we have divided the internships offered into broadly three categories :

Technical Internships

The first thing anyone aiming for tech internships should focus on is religiously practicing coding questions. This can be done by joining any course if the basics are not thorough or by simply solving the questions present on sites like Geeksforgeeks, Interviewbit, Codechef etc. The second step is to improve the speed for achieving precision as well as accuracy when sitting for the test. Alongside this, it is highly necessary to give importance to your resume. Start building an impressive resume as soon as you can, working on projects of your interest. A concrete establishment of the concepts is always beneficial when it comes to explaining one's work in the interview.



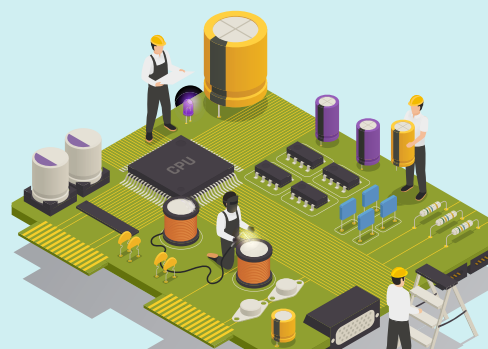
Non-Technical Internships



The first round usually tests your logical and verbal abilities, hence it is important to give attention to such kinds of questions while preparing. One can refer to the CAT books for practicing the logical and quantitative ability along with working on your vocabulary and grammar (apart from these some companies might include a few coding questions too). It would be immensely beneficial for one to have the knowledge of how to solve case studies and of presenting their ideas. Participating in case study competitions would give confidence in facing such kind of questions as well as add up in the resume. Further participation in social work would act as the cherry on the top for one's resume!

Core Internships

It is of utmost importance to rigorously follow your core textbook (for example, Sedra Smith for internships in electronics). It is recommended to solve as many questions as possible, only reading the book won't do and hence practicing variety of questions would give confidence to face them during the tests. Since many times even when the questions might be easy, the time given might cause a hindrance between you and your aim and thus your practicing a large number of questions would also aid in boosting your speed and giving you an edge. Secondly, one should know everything mentioned in their resume in depth, specifically about their projects and previous internships.



In all the above cases, the thing that remains common and probably of the highest value is - confidence. It is absolutely necessary for one to have confidence in whatever they have prepared for. One should be confident in presenting his/her ideas to the interviewer in a proper and logical manner. Apart from this however, everyone, irrespective of the profile they are going to apply for, should keep in mind that along with hard work, luck also plays a key role. It is imperative for us to do our part of hard work and leave the rest on destiny and what is destined for us would eventually pave its way towards us!

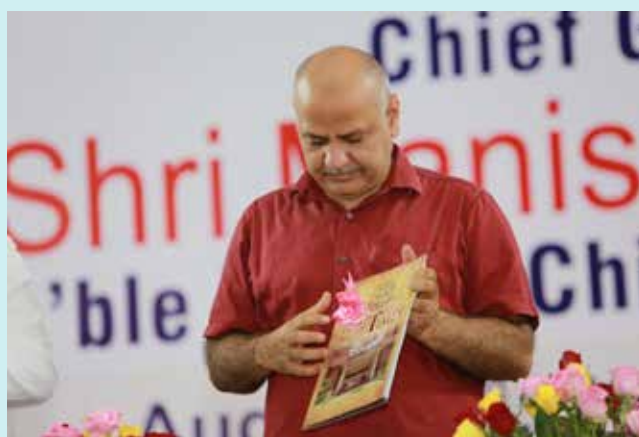
FRESHERS' ORIENTATION



The Orientation Programme and registration sessions for freshmen of all branches were held on 3rd August 2019. The programme was flagged by a floral tribute to Netaji's statue by the Chief guest, Honourable Deputy Chief Minister of Govt. of NCT of Delhi, Sh. Manish Sisodia. Parents and students were seated in the Orientation pandal at the Moksha ground, where they were addressed by Sh. Manish Sisodia himself, along with other dignitaries who graced the occasion. Following the warm welcome and words of encouragement by the guests, the audience was briefed about the prevalent academic system and the course curriculum by the university authorities.

The auspicious event witnessed the launch of the first edition of NSUT Times, an initiative by The Alliance, by Sh. Manish Sisodia. He also inaugurated a new multipurpose centre and laid the foundation stones of a lecture hall complex and two new hostels. This was followed by the orientation, in which various dignitaries addressed the crowd seated in the pandal at the Moksha ground.

All guests, students and faculty members got a chance to have a tour of the 145-acres lush green campus, and were served lunch in the four boys' hostels.



FESTS

When you see colourful posters hanging at the Admin block, the Nescii lawns adorned with beautiful streamers and the Guitar lane illuminated with lanterns, you know that the biggest extravaganza of the season has already knocked on the door.

One of the most anticipated events in the almanac of the university occur around late weeks of October, when our campus hosts Innovision and Resonance. On one hand, the technical fest allows students to rack their brains in a plethora of challenging competitions, whereas the cultural fest is the perfect rejuvenation for students to not only showcase their talents but also have fun. These fests witness participation from different parts of the country and is the perfect destination for students looking to gain exposure and enjoy themselves at the same time.

INNOVISION

With more than thirty events under Innovision, it is impossible to list all of them down. So here is a glimpse of one of the most thrilling fest of the country.

Robo Race

The adrenaline intensifies when bots are not only supposed to clear the hurdles, but also do it the small possible time. This was the perfect event for all the robotic enthusiasts to showcase how fast they have trained their bots to be.



Cognizant

Hosted by the Finance and Economics society of NSUT, the business case competition allowed the participants to analyze real life situations, think outside the box and arrive at the most optimal and pragmatic solution for a real-life problem.



Ideathon

Ecell NSUT's flagship event was all about brainstorming for the next million dollar idea and then pitching it in a mock environment. Pondering over a product and then making a business plan gives one just the right amount of rush.



Game of Drones

This thrilling event saw a huge audience and a wide participation. The drone has to surpass hurdles in minimum time.



Hack-OK please

The ultimate hackathon witnessed programmers from various circuits to devise solutions to "Build for India" real-life problems and then convert the ideas into working prototypes in twenty-four hours.



Nashify

Perfect for a logical and strategic mind, it compelled the participants to use their common-sense to arrive at the correct conclusion to a challenging problem statement.



RESONANZ

The fun and frolic of the “Battle between Branches” is something which no one would have liked to miss. This Intra-college cultural fest invigorated the students with ecstasy and joy. From an open-mic for introverts to express themselves, to the over-energetic to unleash their talents, this three-day gala event had covered it all.

Footloose

Staying true to the adage, “Anybody can dance”, the dancers set the stage on fire with their bouncy grooves, and unimaginable energy.



Dil Khol Ke

An open mic to let the hidden talent get a spotlight, this event allowed comedians, poets, story-tellers to open their hearts out on stage.



Nautanki

The highly spirited event of bringing characters alive on stage, this event witnessed a huge audience. Keeping everyone on the edge of the seats, the actors put heavy and seemingly real performances on the stage.



ALUMNI MEET

The Annual Alumni Meet and Silver jubilee celebrations of 1994 batch were held on the 29 November, 2019. This joyous, nostalgia-evoking event started at 10 a.m. and went on till as late as 8 p.m. in the evening. The Chairman of Alumni Affairs, NSUT and the esteemed Vice Chancellor opened the ceremony with their words of wisdom. Students enthusiastically interacted with their seasoned alumni, and some of the incubatees of NSUT-IIF held pitching sessions in front of them. University authorities held a panel discussion with these accomplished ex-students to plan out a roadmap of NSUT's future.



Importance of Electoral Literacy



Being the abode of different religions, languages, colours and creeds, India's diversity drives the wheels of democracy forward setting an example for the whole world. Being the largest democracy despite its innate diversity in the world is a feat in itself. With every citizen, irrespective of their political or social status, receiving one vote, we are the epitome of electoral equality abiding by the fundamental democratic of the modern world. While the social and political diversity of India makes it a colourful country, it comes with its set of challenges. Managing such a large voter base is a tedious task and ensuring free and fair elections is all the more difficult. While ensuring proper elections is obviously an important job for the election commission, one easy solution presents itself as increasing electoral literacy.

Abysmal literacy rates plague the entire country, especially women who are often denied basic education on account of their gender. That being said, sustained governmental efforts have brought about a positive change with more and more citizens realizing the importance of education. With the young and next generation of voters present in these very educational institutes, electoral literacy had to start from there. This led to the formation of Electoral Literacy Clubs (ELC) on National Voters Day 2018 with the aim of promoting electoral literacy in a neutral and non-partisan manner.

There are currently three members of ELCs namely schools, colleges and rural communities or Chunav Pathshaalas. There are twenty-five activities and six meticulously designed games to make all concepts easy to understand. The members are given lessons to familiarize them with Electronic Voting Machines (EVMs) and Voter Verifiable Paper Audit Trail (VVPAT). Efforts such as 'Model Polling Stations' and 'Know Your Candidate' helps impart necessary information in an interesting manner. To ensure uniformity and the utmost quality of electoral education, this tremendous effort starts from the ground level. Convenors are assigned to each ECL who work under their district's nodal officer. These nodal officers are consistently trained in a series of workshops designed specifically for them. Workshops also help for State Level Master Trainers who further train the District Level Master Trainers. The convenors lie under the DLMTs. This project carries tremendous potential as it reaches the younger generation of the country. With over 2 lakh proposed ECLs across the country, its effects are to be felt far and wide.

The right to vote is what essentially defines modern thought. The very concept of voting and democracy is an empowering one. While differences continue to exist in terms of resources and opportunities, each citizen is equal for the political eye in a democratic nation. Every vote counts and cannot be denied due to ignorance and misinformation. Electoral Literacy is usually ignored in the grander scheme of carrying out elections but it is, in fact, an integral part of ensuring proper electoral procedures. Educating citizens about their legislative, legal and constitutional provisions is a necessity, making them more responsible members of the country. Electoral Literacy is what gives true power to voting and direction to a democracy.



For more information the readers can refer to <https://ecisveep.nic.in/voter-awareness-forums>

The Phoenix's Predicament

The angelic waves felt charming,
The chirping of seagulls - alarming,
What other moment had that beckoning?
None to my conscious reckoning.

O'er the seas and beyond the cliff,
Stood a red Angel on a veering skiff,
With her outstretched long hair fluttering,
Oh i could feel my heart beats stuttering.

Far from another King's wars,
Or another world's stars,
Oh this moment alone deemed infinite,
The past and the future indefinite.

Then struck me an enlightenment,
To honor and preserve my entitlement,
For her eyes I could not see,
Nor hers could I ever be.

Was she a royal piece of art,
But we must forever stay apart,
She met princes I could never best,
Awaken forever to a sweet unrest.

Aye, will the separation be painful,
And even the thought of it disdainful,
But I have vows, for which I stand,
None of them I truly understand.

They will say you are a part of something greater,
Give up and be named a traitor,
They will say she is an Enemy,
But hasn't committed any recorded felony.

To keep family and crown and the God unblemished,
Give up all you ever wished,
Abstain from undivine desperation,
And learn to live in desolation.



*Words by: Devansh Batra
Artwork by: Srishti Bahot*





Artwork by: Nishant Chahar

Kerala Floods

A land, serene and still
with people, expressing and free.
A country, grown dense with palms
with life safe and calm.

I still remember
those peaking hills
alongside the artistic beaches.
Had I known then?

That God's own country
will face his wrath.
That those picturesque backwaters
will terminate life as it is.

I still remember those long strolls
where I tried to capture everything

I could lay my eyes on.
For maybe, I might not be able to see it again

To witness
the absolutely mesmerizing beauty
of a land,
truly ravished.

Maybe that's what destiny is
To take the most revered of us
And hold them naked
for the world to see.

Or maybe, all hope isn't lost.
For I am still able to see
those winsome roads
under all the seas.

Words by: Manad Gupta



Artwork by - Srishti Bahot

The Kid Within

Still, I lie under the shadows
 Of somber skies with apocalyptic beginnings
 The clock seems to be ticking since forever
 I think I am daydreaming at night
 The horizon is hanging really low
 Anxious to kiss the Earth,
 But union is not written in their fate
 And so the Earth has sent her love,
 Through dust, illuminated in the moonlight
 Swirling, twirling up and down
 As if in a cosmic trance
 The devilish clouds have now veiled
 The unguarded secrets of the cosmos
 They form demented shapes of red hues.
 Is it just a coincidence?
 Or somewhere in the distance
 A storm is brewing up for a battle...
 Finally, I spot a star and another in its vicinity
 So dim that I have to strain my eyes
 To see those apertures which let in
 This heavenly light
 Light in which I bask

And enjoy the symphony of the night
 I trace the path of the stars
 At the back of my hands
 They seem to be marching in accord
 Complacent of themselves, because
 In me and others in dark despair
 They have resurrected lost souls...
 The poltergeists have given their way
 To present the king of my heart
 "Moon", I whisper with reverence
 And slowly and slowly I transcend
 Towards a higher realm...
 No poetry I pen, can describe
 The brilliance of this scarred white orb
 So I extend my hands to fill the void,
 That can never be surpassed.
 And when the moonbeam tickles my soft skin,
 I plunge in the sea of love,
 Till, in the lap of this alluring night
 I drown in my own world
 Of dreams and mystique...

Words by - Muskan Sharma

Burnt Pages

It all started with a simple 'Hi'
And the magic of this monosyllable
Broke the walls of unfamiliarity to ashes
And I saw you standing on the other side of it,
Smiling.

I kept staring into your eyes, with my senses all numb.
As the rest of the world turned gray
Strangers turned to companions
And I thought life couldn't be any better

I looked at my watch, the hands were perfectly aligned
The sky was a light shade of blue
That's when I handed you over my book
Allowing you to unfurl it as you like
Hoping you would accept the crisp and torn pages
alike

If only my senses weren't numb that day
I could have smelled the reek of your intentions
I could have heard your malicious snigger
I could have seen the matchstick up your sleeves

Under the terror of lightning sky
When clouds were shrieking with thunder
I tried to smother the flames of my half burnt book
You had left, nowhere to be found
Leaving me drenched in the heat that scorches

I opened up your chapter today
And folded your page from the top right corner
The hands of my watch are no longer aligned
How could they be?
They're together only for an instant.



Words by: Simrat Pal Singh Satia
Artwork by: Srishti Bahot



Transcendence

I have in my soul a creature living free
Far away from worldly pleasures and misery
But the body is not master of his own
Influenced and affected by people unknown

I yearn for a life free from fret
Where I can from dawn to sundown remain wet
In the rains of mesmerizing free thoughts
Pursuing my passion, connecting meaningful dots

I dream myself in this dreamland of mine
Listening to the histories of men great and divine
Counting stars in the boundless sky
Shouting at it and never hear my own cry

The kid within lives forever high
Cheered and too young to die
Listening to this voice in the life's drive
Motivated forever and finding ways to thrive

Words By: Vartik Sehrawat
Artwork By: Nishant Chahar

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