

Edition 3.0

NSUT TIMES

December 2020



The
Alliance
—Bringing NSUT Together—



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FROM THE DESK OF THE VICE-CHANCELLOR

PROF. J.P. SAINI

From navigating the implications of online education during the first lockdown to successfully shifting the whole odd semester to the online mode, I am proud to say that NSUT has tackled many challenges head on and demonstrated yet again that we can adapt to the ever-changing needs of the world. We have done our best to facilitate the same quality of education in online learning by leveraging technology to its utmost, from collaborating with acclaimed platforms to provide access to MOOCs to supplying tablets to the faculty members to emulate the effectiveness of offline teaching.

The past year has also brought some phenomenal new beginnings to NSUT—the university has expanded to include a West and an East Campus that are all set to nurture the incoming batch of students through many newly introduced, industrially vital courses that make avant-garde technologies like IoT and Big Data accessible to them. By melding such contemporary skills with the existing courses, we hope to expand our students' intellectual breadth and mould them into innovators. Our dedication to evolving constantly, promoting high standards of education and opening doors to a wide spectrum of opportunities is as high as ever. I hope that the students will continue to set the bar high in alignment with this vision.

I applaud the team behind NSUT Times for their endeavour to equip the staff and the students with information on multiple facets of this university. I am indeed elated to see both our university's initiatives and a wealth of knowledge from successful alumni being dissipated via the same medium, and I wish them well for future editions.

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FROM THE DESK OF PUBLIC RELATIONS OFFICER

ASTHA SINGH

Netaji Subhas University of Technology is immensely proud to announce the third edition of NSUT Times, an initiative of The Alliance. During the course of the past year, the coronavirus pandemic presented novel challenges for the university, and we are proud to have found ourselves up to the task. Students of NSUT have continued to excel in all fields, be it in academics, research or extra-curricular activities and the faculty have continued to make powerful contributions across several areas of study. We hope this edition can successfully serve as a platform to showcase the various efforts and achievements of the students and the faculty. After the success of the first two editions, we're incredibly excited to share this edition with the readers.

This year was an incredible period of growth, not only for the students but the university as a whole. The expansion of NSUT campus with the inauguration of East Campus and West Campus has led to a gamut of exciting new courses and infrastructural changes incorporated in the pipeline. We are happy to have successfully provided greater opportunities to students, in order to develop the skills they require to be successful and to contribute to society in a tangible way. By presenting first-hand accounts of various developments throughout the university, NSUT Times would definitely foster growth as a collectivising influence and a platform for recognition.

In these difficult times, we have upheld the principles of development and skill-building, so that this generation of students can fully manifest their contributions to various fields of study and development. Through realizing their potential and understanding the needs of today's society, we hope to create a generation that is not only skilled but capable of shouldering their responsibilities as citizens of this country. We thank the readers for taking an interest in the university's affairs and supporting and recognizing us in our mission.

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FROM THE EDITORS' DESK

We are extremely delighted to finally launch the third edition of NSUT Times. 2020 has been a remarkable year for all of us, a virus taught us the power of nature and the importance of slowing down in an otherwise busy world. Initially planned as a biannual publication, the magazine has seen an adjournment as well. The second edition of the magazine was launched at the very beginning of the year, at a time when we were yet to witness all the developments the year had in store for us. In the meantime, we also celebrated our 10th anniversary. It has been a decade since The Alliance was founded as a platform to share the stories and experiences within the student community of NSUT. We soon came to be known as the NSUT's newspaper and have published over 45 editions since then.

Throughout this time, our content has seen a gradual transformation, making it more accessible in the age of smartphones and more relevant as the preferences and social channels of the audience have evolved. We have brought a similar transformation over to NSUT times as well since it is one of our more cherished recent undertakings. This has been possible due to the efforts of our highly motivated juniors and the college authorities who have all made remarkable contributions to the magazine at a time when it was impossible for the team to meet physically. Perhaps the immediately noticeable change is the reformulated design, we have heavily focused on the aesthetics and attempted to give the magazine a new, more friendly look. Apart from the design, we have also heavily focused on the content, with more information that will be relevant to NSUT freshers and external readers alike. We have added more opinion articles.

In the second edition, we had included a series of interviews with NSUT alumni who have made it big in various non-technical fields. This time, we continue the tradition with a series of interviews on recent NSUT passouts selected in some of the best graduate schools in the world. We are extremely thankful to all the alumni who provided us with their precious time and are sure that their insights would be extremely valuable to the readers who have similar ambitions.

The incoming batch, the class of 2024, would soon occupy three campuses with world class infrastructure and a celebrated legacy. After all the academic pressures and uncertainty in recent months, it sure feels exciting to start a new adventure. We congratulate the newly inducted students and wish them the very best for their college life. Finally, we thank the readers for their interest and sincerely hope to meet all expectations. We also look forward to any feedback, comments and criticisms so we can continue to evolve and produce better content in our future edition.

NSUT: EXPLORING NEW FRONTIERS

Kanav Dwevedi

After our beginnings as DIT and the prestige we built as NSIT, the transition to NSUT has been significant for our institution. With the mantle of a University, along with resources and station, came a responsibility to create our own microcosm of education. The integration of CBPGEC and AIACTR with our fledgeling university, along with the ongoing development in Main Campus, promises great tidings in this endeavour. The addition of East and West Campus will add 360 BTech and 72 MTech seats and will open up these facilities to a wider pool of students through the Joint Entrance Examination.

Main Campus

With the recent development of state-of-the-art facilities at the main campus and the inclusion of several premier courses, the campus is prepared to provide an excellent experience to students, as soon as in-person classes commence.

Computer Science and Engineering (Data Science)

Data science is an interdisciplinary field that aims to extract knowledge and gain insight from data. This new branch aims to enable students to explore and participate in the ever-growing data science industry with innovative courses.

Information Technology (Network and Information Security) (ITNS)

Digital security forms a pillar of the modern IT industry and this course provides the perfect opportunity to create a powerful foundation as a budding IT engineer and lay the groundwork for success.

Electronics and Communication Engineering (Internet of Things)

Internet of Things describes the network of physical objects embedded with technology to allow exchange of data over the Internet. Incorporating concepts from IoT will diversify the student's abilities and enable greater innovation.

Bachelor of Fashion Technology (B. FTech.)

This course aims to provide resource expertise in fashion technology using state-of-the-art facilities, the latest technology and skills.

West Campus

NSUT, West Campus, aiming to build upon CBPGEC's 13-year-old legacy of excellence, has immediately distinguished itself with innovative courses offered in civil engineering, information technology and mechanical engineering.

BTech. Geoinformatics

Geoinformatics uses information science to address problems in geography, cartography, geosciences and related branches of science and engineering. It has wide-ranging applications in urban planning, oceanography, climate science, telecommunications and more.

BTech. Mechanical Engineering (Electrical Vehicles)

Electrical vehicles are at the forefront of automobile innovation, emblematic of the future of the industry. This course aims to equip students with the skills they need to understand, participate and innovate in this booming sector of the industry.

BTech. IT (Internet of Things)

From interfacing everyday objects with electronics to create interactive and dynamic environments, to making large scale systems more efficient, the potential for IoT is limitless. This course incorporates concepts relevant to IoT to complement the student's education in IT.

BTech. Civil Engineering

In today's era of urban expansion, the demand for civil engineers has only risen. Every bit of infrastructure in our environment requires an efficient, dependable design and so, a competent civil engineer. This course is designed to equip students with the tools they need for achieving excellence.

East Campus

Standing atop two decades of pre-eminence as AIACTR - NSUT, East Campus will be offering an impressive choice of programmes in Computer Science and Electronics and Communications

BTech Computer Science and Engineering (Big Data Analytics)

Big data analytics studies large datasets to uncover patterns, correlations, trends and preferences. Along with core concepts in computer science, this course exposes students to highly sought skills in data analysis to enhance their skills as engineers.

BTech Electronics and Communication Engineering (AI and Machine Learning)

Machine learning involves creating algorithms that can improve by 'training' on large sets of data. Innovation in machine learning is rapid as the applications are ubiquitous. This course builds upon the standard ECE programme through the inclusion of concepts from Machine Learning and AI.

During the last two years, NSUT has shown a commitment to grow and develop as an institution. This integration of institutions under NSUT is a powerful opportunity offered to competent minds, and we should all look forward to the ecosystem of learning this university has the potential to create.



The past few months have been trying times for all the students around the world. Having been deprived of the facilities and the comfort of a physical classroom, educational institutions and students have had to make do with online classes and e-learning resources. NSUT's Online Learning initiatives have been commendable, and have ameliorated the online learning process for the majority of the students. During the lockdown, NSUT has entered into various partnerships and agreements with internationally acclaimed online learning platforms, in order to provide quality content to their students during the pandemic. We have listed the most important ones down below:

- **COURSERA:** Coursera is the world's largest open online learning platform, where anyone can start learning after choosing from a plethora of courses offered by the best universities in the world. Most of the courses require a fee payment in order to avail the completion certificate issued by Coursera and the corresponding university. Registering itself for the Basic campus Plan on Coursera, NSUT made over 3,600 courses free for their students; with several specialization courses from the fields of Mathematics, Mechanics, Computer Science and Finance.
- **eDX:** eDX is a trusted online platform for education, founded by Harvard and MIT. Many courses require payment for enrollment and availing of the certificate of completion from the corresponding university; just as in Coursera. NSUT provided its students with free coupons for a roster of more than 800 courses thus making them several times more accessible and affordable for students. Courses were selected based on their relevance to NSUT's student community with an aim of overall skill and personality development.

Some of the major domains of learning were Marketing, Finance, Data Science, Electronics and Electrical, Mechanical, Medicine, Religion, Psychology and Literature.

- **SPRINGER BOOKS:** Springer Nature launched a global program to support online learning and teaching at the higher education institutes worldwide. Several institutes were given access to more than 400 key english based textbooks from various domains such as Technology, Religion, Medicine, Law, Literature, Business and Psychology. NSUT took this brilliant opportunity and facilitated free access to these titles for their students via SpringerLink starting from 23rd April, 2020 till the end of July'2020.
- **BootUp Camp:** NSUT organized a BootUp camp to support budding startups in the campus and from surrounding areas of Delhi-NCR. Several online webinars were organized in collaboration with PadUp Ventures, a Niti Aayog knowledge partner and a renowned Mentoring platform for Startups. The webinars were made compulsory for all the students across departments to help them understand several nuances pertaining to business planning and strategy such as establishing a strong position in the market, identifying business opportunities by meeting potential customers, building a Go-To-Market strategy, Innovative business models and sustainable business plans.
- Many students were also given the opportunity to intern and volunteer for the organization of the activities of various events under the aegis of BootUp camp from March'20 to August'20. It gave the volunteers first-hand exposure to the internal process of recruiting, shortlisting, and evaluating start-up and a ring-side view to understand the exciting start-up ecosystem.

STARTUPS INCUBATED BY NSUT-IIF

From an obscure term that is hard to pronounce and spell to a concept burgeoning in popularity, entrepreneurship has travelled quite a long journey. Given the increasing incentives from the government and demographic advantage of supporting new start-ups, India has performed remarkably well in building a start-up ecosystem. To foster the entrepreneurial needs and create in-house opportunities for the youth, NSUT established the Incubation and Innovation Foundation with a mission of creating an ecosystem that would foster and support problem solving, out of the box thinking and knowledge-based entrepreneurship in NSUT. NSUT IIF is not just an incubator — it is an organisation willing to help anyone with entrepreneurial zeal to learn, understand and create a successful business from scratch. It helps budding start-ups by not only funding them, but also educating them about new cutting-edge technologies and lean methodologies, putting them at par with start-ups around the nation.

Some of the notable start-ups incubated in IIF are: -

- **Zalonin** : Founded by Rahul Abhishek (Batch of 2018), it is a one-stop-shop in the beauty and wellness space which brings a variety of beauty products and services at your doorstep. Users can order and book premium beauty products and stylists on a single platform.
- **ACM Productions** : A production company founded by Mansi Sehgal (Batch of 2021), Suneet Thakur (Batch of 2020) and Deepak Kumar Pal (Batch of 2020) creating content for the youth.
- **The Healthy Company** : A health-tech startup co-founded by Devansh Jain Nawal (Batch of 2020) that uses biotechnology and AI to help you achieve your health goals. They recently concluded their seed round of funding raising over \$350,000 from a number of venture capitalists including Venture Catalysts.
- **Bonfarmo** : An aggrotech start-up founded by Priyam Maheshwari (Batch of 2019), Mayank Jain (Batch of 2012) and Himanshu Budhiraja (Batch of 2019) integrating image processing and ML into hardware products.
- **Datsme** : A social media platform co-founded by Sushant Singh (Batch of 2019) and Aditya Anand (Batch of 2019) that connects with people in your vicinity based on your compatibility.
- **GryNow** : A marketing platform co-founded by Vaibhav Kumar (Batch of 2019) that connects social media influencers with brands.

Yash
Sethia



Yash Sethia

STARTUPS INCUBATED BY NSUT-IIF

- **Triposse** : A travel start-up founded by Saumya Dutta (Batch of 2017) providing authentic cultural experiences to customers.
- **VKarma** : A ed-tech start-up founded by Harshvardhan (Batch of 2022) that provides administration tools to Educational institutes to enhance their productivity and transparency.
- **Bageera** : A start up founded by Parth Mittal (Batch of 2019) that aims at providing robotics enthusiasts with all the resources to ensure a comfortable learning experience. It not only offers workshops and training sessions but also acts as an e-commerce platform to ensure availability of resources.
- **Tech Swarm** : A tech startup founded by Arush Bartaria (Batch of 2021) that ensures your safety using drones which would escort you to your destination and raise alarms in case of a threat.

The IIF has been persistent in their efforts to develop an innovative mindset among students and faculty. Their diligent efforts have been recognized on multiple occasions. The Atal Ranking of Institutions on Innovation Achievements (ARIIA) 2020 has ranked NSUT 5th among all Government and Government Aided Universities. NSUT IIF has not only been helping pre-incubated and incubated startups but also people with entrepreneurial aspirations. Recently, they collaborated with PadUp ventures to host a bootcamp—NSUT Launchpad 2020—for all those who had business ideas but lacked knowledge and resources to carry through them. The participants of the bootcamp would be educated about validating their ideas, lean methodologies, creation of a revenue and business model and rolling that model out in the market.

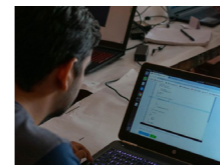
As the times change and the need for more people opting to be employers rather than employees increases, NSUT IIF continues to build avenues of partnership and integration with other organizations and agencies towards nurturing entrepreneurial acumen in NSUT.

YEAR IN REVIEW

INNOVISION

18TH - 20TH
OCTOBER 2019

The technical fest of NSUT witnessed a huge participation of scientific minds and technological geeks from across the city in coding competitions, hackathons and brain teaser games.



WINTER SPORTS

14TH - 28TH JANUARY 2020

Organised by the Sports Department Of NSUT, the event witnessed fierce competition between the branches in the field and indoors, in numerous team and individual sports events including football, basketball, cricket, volleyball, table tennis, chess, etc.



E-SUMMIT

14TH - 15TH FEBRUARY 2019

The Entrepreneurial Summit Organised by Entrepreneurship-Cell NSUT involved numerous case study and finance based competitions, witnessing a huge footfall from various colleges across the city.



NSUTTHON

26TH - 30TH AUGUST 2019

This week-long event organised by Crosslinks involved events like society orientations, auditions, competitions or workshops for freshers. Participants formed teams of six or less to compete and win the prize of the 'Ultimate Fuchha'!



RESONANZ

18TH - 20TH OCTOBER 2019

The Annual Intra-College Cultural Fest was all about different branches battling it out in various events to decide on which branch should be crowned as the best. The events ranged from various cultural fields including literature, conventional art, dance and music.



ETHNIC DAY 23TH OCTOBER 2019

Organised by Junoon - The Photography Club of NSUT, Ethnic Day marked a day of us celebrating our culture along with a tinge of fun photography and energetic bhangra moves.



CONSILIUM 31ST JANUARY - 2ND FEBRUARY 2020



The NSUT Business Conclave organised by the Finance and Economics Society of NSUT (FES) was a three day confluence of finance, technology, HR, marketing and business operations. The event was also graced by some incredibly influential speakers

ASPIRE

15TH - 16TH FEBRUARY 2019

The Annual Social Entrepreneurship Conclave of NSUT organised by Enactus NSUT featured many eminent speakers from the domain of social entrepreneurship. Many strategic and critical thinking events and competitions were organised to nurture budding social entrepreneurs.



“RESEARCH PUBLICATIONS”

Please note that this list is based on the entries received (research publications accepted between January 2020-present) by our team from the authors in pursuance to the notice and hence is non-exhaustive in nature.

Jayesh Vasudeva, Pranshu Rastogi and Jyoti Yadav "Glaucoma Detection And Segmentation And As Computer-Aided Design: A Review And Study" has been accepted to be presented at INDICON 2020 which will be held on 11th-13th December, 2020.

Mishra S, Das S, Pattnaik SS, Kumar S, Kanaujia BK. "Three Dimensional Cylindrical Design Multiple-input Multiple-output/ Diversity Antenna With High Isolation For Wireless Communication Applications", International Journal of RF and Microwave Computer-Aided Engineering. 2019, e22001. <https://doi.org/10.1002/mmce.22001>.

Mishra S, Das S, Pattnaik SS, Kumar S, Kanaujia BK. "Low-profile Circularly Polarized Planar Antenna For Gps L1, L2, And L5 Bands", Microwave and Optical Technology Letters. September, 2019; 1-10. <https://doi.org/10.1002/mop.32077>.

Mishra S, Das S, Pattnaik SS, Kumar S, Kanaujia BK. "Carbon Fiber-based Deca-port multiple-input-multiple-output Antenna With Pattern Diversity And High Inter-element Isolation", International Journal of RF and Microwave Computer-Aided Engineering. February, 2020; e22195. <https://doi.org/10.1002/mmce.22195>

S. Mishra, S. Das, S. S. Pattnaik, S. Kumar and B. K. Kanaujia "Three-dimensional Dual-band Dielectric Resonator Antenna For Wireless Communication", IEEE Access, vol. 8, pp. 71593-71604, April, 2020. Digital Object Identifier 10.1109/ACCESS.2020.2987950.

D. K. Sharma, A. K. Kaushik, A. Goel, S. Bhargava "Internet Of Things And Blockchain: Integration, Need, Challenges, Appli-

cations And Future Scope", Handbook of Research on Blockchain Technology, Academic Press, Elsevier, 2020, pp. 271-294, ISBN: 978-0-12-819816-2.

D. K. Sharma, A. Goel, P. Mangla "Fog And Edge Driven Security & Privacy Issues In IoT Devices", Book title "Fog, Edge, and Pervasive Computing in Intelligent IoT Driven Applications" accepted in IEEE/Wiley.

Deepak K. Sharma, Kartik Kwatra, Manan Manwani, Nimit Arora, Aarti Goel "Optimized Resource Allocation Technique Using Self Balancing Fast Min-min Algorithm", presented at the ICDAM-2020.

Anuj Rawat, S.K. Jha, Bhavnes Kumar "Position Controlling Of Sun Tracking System Using Optimization Technique", Journal of Energy Reports, Vol. 6, No. 2, pp. 304-309, February 2020. (SCIE Indexed, IF-3.6)

Anuj Rawat, S.K. Jha, Bhavnes Kumar, Mohan, Vijay "Nonlinear Fractional Order Pid Controller For Tracking Maximum Power In Photo-voltaic System", Journal of Intelligent, Fuzzy Systems, Vol. 38, no. 5, pp. 6703-6713, May 2020. (SCIE Indexed, IF-1.637).

Anuj Rawat, S.K. Jha, Bhavnes Kumar "Various Configuration And Control Techniques For Photovoltaic Fed Motor Driven Water Pumping System", International Journal of Sustainable Agricultural Management and Informatics, Vol. 6, No. 2, pp. 179-198, July 2020. (SCOPUS)

Shivani Rai and S. K. Jha, "Comparable Study Of Different Methods Of Model Order Reduction", presented at the International Conference on Advancement on Computing and Management (ICACM 2019), held from 13-14 April 2019, at

Jagannath University, Jaipur, India.

Vineet Kumar Yadav, S. K. Jha and Bhavnes Kumar "Comparative Study Of Different Variable Step Size Perturb And Observe Based MPPT", presented at the International Conference on Advances in Computing, Communication & Materials (ICACCM-2020), IEEE Conference, held during August 21-22, 2020 at Dehradun Uttarakhand, India.

Simran Priya and S.K.Jha "Switched Capacitor Based Inverter With Maximum Power Point Tracking Of Photovoltaic System", presented at the Electric Power, Renewable Energy Conference- 2020 (EPREC-2020), held on 29-30 May, 2020 at NIT Jamshedpur.

Dr. Praveen Saroha "Descriptive Study of Role Played by Exercise and Diet on Brain Plasticity", presented at the 1st International Conference on Physical Education and Sports Sciences held from 7th to 8th November 2019 in Dubai.

Dr. Praveen Saroha "The Comparative Study on the Effects of Exercise and Sleep on the Process of Learning", presented at the 3rd UGC sponsored National Conference on Latest Trends in Health and Physical Education held on 21 August 2019.

Poonam Rani, Pushpinder Pal Singh, Arnav Balyan, Jyoti Shokeen, Vibha Jain, and Devesh S a n g w a n "A Secure Epidemic Routing Using Blockchain In Opportunistic Internet Of Things", presented at the International Conference on Data Analytics and Management (ICDAM-2020)

Samiksha Dabas, Manish Kumar O. P. Thakur "Investigation On Structural, Magnetic,

Dielectric And Impedance Spectroscopy Properties Of 'gd' Modified Multiferroic-ferroelectric Solid Solutions" Ceramics International (Elsevier), Volume 46, Issue 11, Part A, Pages 17361-17375, 1 August 2020, <https://doi.org/10.1016/j.ceramint.2020.04.026>, online 8 April 2020 (Impact factor-3.640).

Prachi Chaudhary, Samiksha Dabas, Manish Kumar, Arvind Kumar, O.P. Thakur "Structural, Dielectric And Magneto-electric Coupling Analysis In SrBi2n-b2o9-cofe2o4 Composites" Bulletin of Materials Science (Springer), 43(247), 2020, <https://doi.org/10.1007/s12034-020-02216-1>, published on 28 Aug 2020, (Impact factor-1.392).

S.Shankar, O.P. Thakur, M. Jayasimhadri "Structural, Multiferroic And Magneto-electric Properties Of (1-x)Bi0.85la0.15feo3-xbatio3 Composite Ceramics" Journal Of Materials Science: Materials in Electronics (Springer), 31, 12226-12237(2020), <https://doi.org/10.1007/s10854-020-03768-y>, online 18 June 2020 (Impact factor: 2.210).

Manish Kumar, S Shankar, Arvind Kumar, Avneesh Anshul, M. Jayasimhadri, and O P Thakur "Progress In Multiferroic And Magneto-electric Materials: Applications, Opportunities And Challenges", Journal of Materials Science: Materials in Electronics (Springer), <https://doi.org/10.1007/s10854-020-04574-2>, (published on-line on 16 October 2020), (Impact factor: 2.210).

Daya Nand, Meenu Chahar, Devesh Kumar Pathak, O. P. Thakur, V. D. Vankar, Rajesh Kumar "Deposition Of Single Phase Polycrystalline A-fe2o3 Thin Film On Silicon And Silica Substrates By Spray Pyrolysis", Silicon (Springer), Accepted on 22 Sept 2020, <https://doi.org/10.1007/s12633-020-00727-4>, (Impact factor-1.499).

S. Shankar, I. Maurya, Abhishek Raj, Sukhbir Singh, O. P. Thakur, M. Jayasimhadri "Dielectric And Tunable Ferroelectric Properties In Bifeo3-bicoo3-batio3 Ternary Compound", Journal Applied Physics A (Springer), 126, Article No. 686, Accepted on 31 July 2020, <https://doi.org/10.1007/s00339-020-03872-0>, published on

9 August 2020 (Impact factor-1.810).

S.Shankar, O.P. Thakur, M. Jayasimhadri "Impedance Spectroscopy And Conduction Behavior In Cofe2o4- Batio3 Composites" Journal Of Electronic Materials (Springer), 49(1), 472-484 (2020), <https://doi.org/10.1007/S11664-019-07700-x>, (published online 21 October 2019), (Impact factor- 1.774) .

Samiksha Dabas, O. P. Thakur "Investigation On Microstructural Properties And Magneto-electric Co-efficient Of Mn Modified Bifeo3 Based Solid Solutions" Integrated Ferroelectrics (Taylor & Francis), 203(1), 170-175, <https://doi.org/10.1080/10584587.2019.1674950>, ISSN:1607-8489, Oct 2019, (Impact factor-0.624).

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); <https://doi.org/10.1063/1.511929>, published online on 2 Oct 2019, (Impact factor-2.286).

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, <https://doi.org/10.1007/s10854-019-01735-w>, published on-line 11 July 2019, (Impact factor: 2.210).

Mishra Prithu, Shruti Sood, Mayank Pandit, Anshita Goel, and Pradeep Khanna "Additive Manufacturing (3d Printing): A Review On The Micro Fabrication Methods", accepted to be published in the International Journal for Research in Applied Science & Engineering Technology (IJRASET) 8, no. April (2020): 22. <https://doi.org/http://doi.org/10.22214/ijraset.2020.4160>.

Pandit Mayank, Shruti Sood, Prithu Mishra, and Pradeep Khanna. "Mathematical Analysis Of The Effect Of Process Parameters On Angular Distortion Of Mig Welded Stainless Steel 202 Plates By Using The Technique

Of Response Surface Methodology", accepted to be published in Materials Today: Proceedings, 2020. <https://doi.org/10.1016/j.matpr.2020.06.570>.

Sood, Shruti, Prithu Mishra, Mayank Pandit, and Pradeep Khanna. "Prediction And Optimization Of Weld Bead Geometry Of Mig Welded Stainless Steel 202 Plates", accepted to be published in Lecture Notes In Mechanical Engineering, 2020.

Mishra, Prithu, Mayank Pandit, Shruti Sood, and Pradeep Khanna. "Development Of Mathematical Model For Prediction And Control Of Weld Dilution In Mig Welded Stainless Steel 202 Plates", accepted to be published in Lecture Notes in Mechanical Engineering, 2020.

Mishra, Prithu, Shruti Sood, Mayank Pandit, and Pradeep Khanna "Additive Manufacturing: Post Processing Methods And Challenges", accepted to be published in the Advanced Engineering Forum, 2020.

Narang, Rishabh. , Maheshwari Vibhu, Khanna Pradeep "Prediction Of Angular Distortion In Mig Welded Stainless Steel 409l Plates By Mathematical Modeling", International Journal Of Mechanical And Production Engineering (IJMPE), Volume-8, Issue-6 (June 2020), pp. 1-5" http://iraj.in/journal/IJMPE/paper_detail.php?paper_id=17204&namePrediction_of_Angular_Distortion_in_MIG_Welded_Stainless_Steel_409L_Plates_by_Mathematical_Modeling

Anica Dadwal, Shilpa Sharma and Tulasi Satyanarayana "Progress in Ameliorating Beneficial Characteristics of Microbial Cellulases by Genetic Engineering Approaches for Cellulose Saccharification", Frontiers in Microbiology, 11, 1387. doi: 10.3389/fmicb.2020.01387 (Impact factor: 4.19)

Jyoti Gogia and Sawan Nanda "Digital Marketing: Significance and Trending strategies during COVID-19" published in the International Journal of Research in Engineering, Science, and Management, Volume 3, Issue 11, November 2020, ISSN (Online): 2581-5792

Yash Agarwal*, Devansh Bagtra*, and Ganesh Bagler "Building Hierarchically Disentangled Language Models for Text Generation with Named Entities", in the 2020 28th International Conference on Computational Linguistics (COLING)

Avinash Swaminathan, Haimin Zhang, Debanjan Mahata, Rakesh Gosangi, Rajiv Shah, and Amanda Stent "A Preliminary Exploration of GANs for Keyphrase Generation", in the Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)

Sharma, M, Pant, S, Kumar Sharma, D, Datta Gupta, K, Vashishth, V, Chhabra, A. "Enabling security for the Industrial Internet of Things using deep learning, blockchain, and coalitions", Trans Emerging Tel Tech. 2020;e4137. <https://doi.org/10.1002/ett.4137>

Sharma, Deepak Kumar, Shrid Pant, Mehul Sharma, and Shikha Brahmachari "Cryptocurrency Mechanisms for Blockchains: Models, Characteristics, Challenges, and Applications", in the Handbook of Research on Blockchain Technology, pp. 323-348. Academic Press, 2020.

Vijay Gupta "Differences of operators of Baskakov type", Fasciculi Math. 62 (2019), 47-55.

Vijay Gupta, D Agarwal and T M Rassias "Quantitative Estimates for Differences of Baskakov-type Operators", Complex Anal. Oper. Theory 13(8) (2019), 4045-4064.

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N. Deo, Vijay Gupta, Ana Maria Acu and P. N. Agrawal Book titled "Mathematical Analysis II - Optimisation, Differential Equations and Graph Theory", ICRAPAM 2018, New Delhi, India, October 23-25 Series: Springer Proceedings in Mathematics & Statistics, Vol. 307 (2020)

Vijay Gupta Delivered a lecture on "Recent Developments on Convergence of Integral Type Operators" at the International Conference on Recent Trends in Materials and Devices held at Amity University, Noida on 18th December, 2019.

Vijay Gupta Delivered a lecture on "Approximation Methods on Convergence of Certain Operators", at the 3rd International Conference on Modern Mathematical Methods and High Performance Computing in Science & Technology held at IPEC during 9-11 January 2020.

Vijay Gupta Was invited to be a keynote speaker at the International Conference on "Mathematical Modeling and High Performance Computing in Science and Technology", and delivered a lecture on "Convergence Estimates-An Overview" at the conference held during 12-13 Feb 2020.

GUEST ARTICLE

ETHICAL IMPLICATIONS OF GENETIC ENGINEERING

Abhishek Singh

The recent announcement of the Nobel Prize for Chemistry for the year 2020 being awarded to Jennifer Doudna and Emmanuelle Charpentier for the **development of a method of genome editing** has once again sparked off a long pending debate on the ethical implications of genetic engineering or genome editing.

In 2018, Chinese researcher He Jiankui announced that he had used the genome-editing technology CRISPR/Cas9 to create a gene-edited twin via in-vitro fertilisation (IVF). This experiment faced a severe backlash from the general population and the scientific community. He was widely condemned and sentenced to three years in jail- such was the extent that many declared such experiments a gross Human Rights Violation. Many countries went on to pass a law that embargoed the use of such experiments on human beings.

Genetic Engineering is not new progress that our technological world has seen. This method was first used in the 1980s, with several advances made since then. Several other works have already been done on Genetic Engineering with a focus on increasing plant and animal food production, diagnosing disease conditions and medical treatment.

1. India is one of the many countries that has benefitted from genetically modified seeds. The acceptance of genetically modified seeds paved the way for a green revolution in India for these seeds could withstand severe drought and flood situations. Such was an impact that not only did India produce sufficient food grains for its domestic consumption, it was also able to become an overall net exporter of agricultural produce.
2. Genetic Engineering technologies allow researchers to change the DNA of a human being with extremely high precision. This technology would have a revolutionary impact on life sciences- contributing significantly towards cancer therapies and may make the dream of curing inherited disease come true. In a country like India, where more than 50% of women aged between 15 to 49 are anaemic, the use of Genome Editing Technologies could play a vital role.

3. Almost 55 million people die every year due to Cardiovascular Diseases with strokes responsible for more than 80% of these deaths. Employability of Genetic Engineering technologies could not only help in reducing the diseases being inherited like high blood pressure, high sugar level which contribute significantly toward strokes but could also lead to upliftment of many social indicators such as life expectancy and reduced mortality figures. Over 8 million test-tube babies have been born worldwide since the 1980s. IVF is one of the success stories of genetic engineering, bringing in joy and hope to the millions of infertile couples around the globe.

4. We have seen some of the genetically engineered products being deployed at the forefront of our fight against COVID-19. The recent launch of FELUDA test kit is based on CRISPR/cas9 technology. The test kit shows the result in less than fifteen minutes with a very low rate of false negative. This cheap and quick FELUDA test could be a game changer in India's fight against Covid-19.

5. A look at history may pave the way for the use of genetic engineering. In August 1945, the USA detonated two nuclear bombs over Japan. It killed almost 2,00,000 people and many more facing long term side effects of radiation. A more recent example that can be referred to is the tragedy that befell Bhopal, Madhya Pradesh in December 1984 due to an accidental gas leak. Almost 2,000 people died with over 4,000 people being permanently disabled. Even now, decades later, the kids born in the victims' family are often paralysed due to genetic changes that radiations and chemicals have caused, which have been subsequently inherited by newly born babies. Editing DNA can allow us to ensure the future generations don't suffer.

I would conclude by stating that genetic engineering is the need of the hour. Having listed some key points above, I would leave it to the readers to make up their mind. However, I would caution the reader to make the distinction between the moral and the ethical implications of Genetic Engineering.

ARTSPECTIVE

BY ADITI GUPTA (MPAE)
ARTWORK - NISHANT CHAHAR



When the sky turns grey And Our fate
runs fray when our dreams are ignited
and our hope is frightened when a smile
doesn't bloom flowers in our heart
but devours it
when affection doesn't bestow warmth
but makes us feel like a sloth
when love and desires can't make us
alive enough
because they were just a bluff
when happiness seems far fetched
because we are way too stressed
we still need to keep our fingers crossed
because all is not yet lost
the sky will soon turn pink
and the fire will extinguish
we must remember
to not surrender
strength isn't physical but mental
isn't superficial, but subtle

ARTSPECTIVE

BY ISHAN CHOURASIA (ECE-2)
ARTWORK - MANSI BAL

The beetle buzzed over the grass
Its back shimmering in the setting sun
Although the flowers had bloomed this year
Yet it missed the ruckus that used to be here
It missed nibbling the hair of the child
Who sat upon the boulder
It longed to see the reflection
Of the sun drowning in his eyes

It missed the sweat of the fishermen
Who rowed the boat back to the shore
The stale fishes they brought along
Their stench still lingered like a ghost

The coffee stand stood still
Anna was nowhere to be seen
The cookie jars were empty
Yet the flies buzzed over the rotting crumbs

The Dog ran across the beach
Like the king he always was
But what's a king sans his subjects?

A dog sans his humans to chase?

Lonely, the king went inside the tall grass
To bust the teens who used to giggle behind
them
He thought he heard a girl laugh
It was just his ears ringing of the past

The humans are absent
But not everyone misses them.
Ask the flowers, how it feels to grow fearlessly
Or the sky, who shines a bit more blue these
days

The water finally shimmers in the starlight
The sea free of the motor boat noise
The coconut trees swaying a bit more freely
And the sun, getting to see his Earth alive

After all that has happened,
It may never go back to normal.
But ask yourself
Was it ever normal?



मल्लि बहुत से लोगों से
मैं चलता अपनी राहों पे।
अपना उनको मान लिया
भर लिया अपनी बाहों में॥

कुछ का हर पल का साथ रहा।
कुछ का पल भर का साथ रहा॥

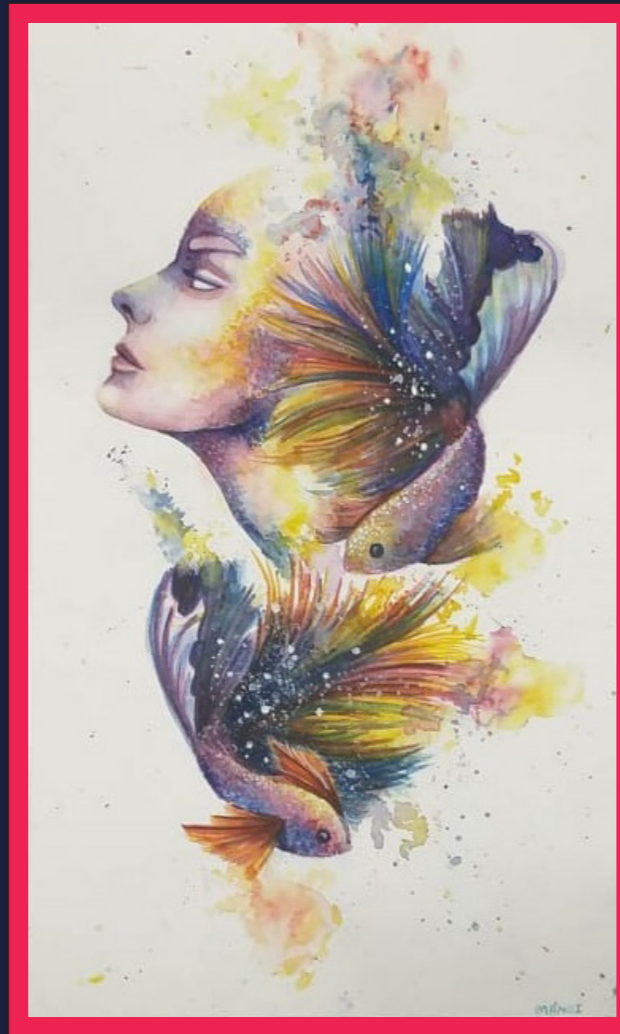
कुछ कहे बनि
ही मुँह फेर लिया।
साथ उनके बीते लम्हों की
यादों ने है घेर लिया॥

जानें क्या वो कतिना सताती
मुझको उनकी याद।
छोड़ गए जो तरसूँ उनसे
करने को मुलाकात॥

खामोशियाँ सता रही हैं।
दूरियों को बढ़ा रही हैं॥

कतिना वक्त अब देखना चाहते
यूँही मुझे उदास
भूल चूक को क्षमा करो
आ जाओ न फ़रि से पास॥

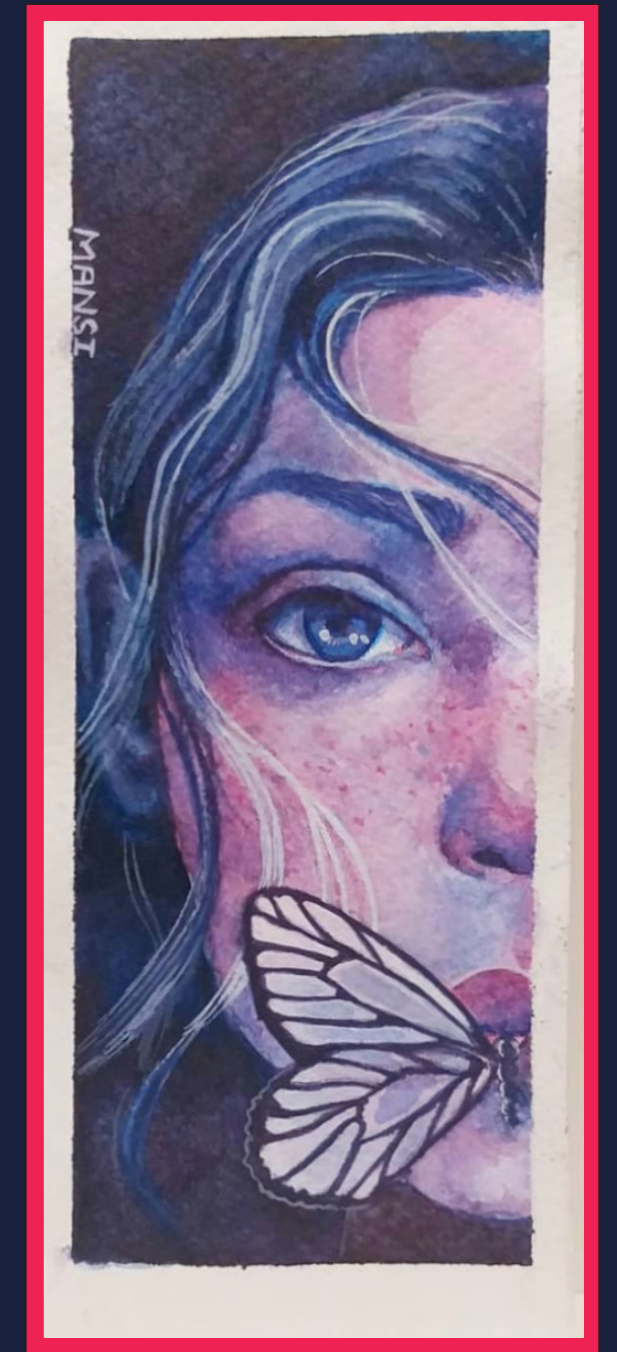
ऋषभ सेतिया
सूचना प्रौद्योगिकी (IT)



मानसी बल

इतनी ज़मानत चाहिए की जो हो दो तरफ़ा हो।
दो तरफ़ा हो ये डर भी,
अज्ञात के लए ज्ञात के खो जाने का डर।
उन जदिगी भर प्यार करने के दिलोंसों के टूटने का
ज़ख्म भी दो तरफ़ा हो,
और उस ज़ख्म की याद भी दो तरफ़ा हो।
दो तरफ़ा चाहत,
दो तरफ़ा बेचैनी,
दो तरफ़ा खो जाने की चिंता में जगना।
पर दुनिया इतनी सीधी न है,
तो इस एक तरफ़ा चाहत के एक तरफ़ा दर्द को इक
तरफ़ा दिल में समेट कर दो तरफ़ा इश्क़ के कुछ
आखरी ख़्वाब बन लेता हूँ।
इतनी ज़मानत चाहिए की जो हो दो तरफ़ा हो।
दो तरफ़ा हो ये डर भी,
अज्ञात के लए ज्ञात के खो जाने का डर।
उन जदिगी भर प्यार करने के दिलोंसों के टूटने का
ज़ख्म भी दो तरफ़ा हो,
और उस ज़ख्म की याद भी दो तरफ़ा हो।
दो तरफ़ा चाहत,
दो तरफ़ा बेचैनी,
दो तरफ़ा खो जाने की चिंता में जगना।
पर दुनिया इतनी सीधी न है,
तो इस एक तरफ़ा चाहत के एक तरफ़ा दर्द को इक
तरफ़ा दिल में समेट कर दो तरफ़ा इश्क़ के कुछ
आखरी ख़्वाब बना लेता हूँ।
इस इश्क़ के एक तरफ़ा अपहरण का अंदेशा सा है
मुझे।

धरुव गुप्ता
संगणक प्रौद्योगिकी (COE)



मानसी बल

STUDENT DIARIES (2020)



Alarm starts to buzz

I frantically search for the snooze button to end the cacophony. I still have half an hour to spare before the class starts. I swear, I'll lay down for only five minutes.

After a century of deep cryogenic sleep

How is this even possible? I presume I slept for only ten minutes at maximum. I really need to join whatever is left of the class.

I triple check to ensure that the video is turned off. After a lot of struggle, I manage to come out of hibernation. I try to focus on the white screen, but the letters seem to be dancing. The teacher has asked a question, and is expecting an answer. It seems like the meeting is a deep, silent void from which no voice reverberates, except hers.

"Hello? Hello students? Am I audible, or not?"

"Helllloooo?"

I feel bad for her, I really do. I want to unmute the mic and reply in affirmative. But then I consider the possibility of getting noticed among a bunch of seventy wordless students, and being asked a difficult question of some course I don't even know the basics of. So I let it pass.

I know three hours of sleep is against the Zen principles of living a happy life, but I can't help it. My sleep cycle is messed up and I can't not remain awake till the sun has risen up.

It's still twenty minutes to attendance, another nap of five minutes won't do much harm.

After another century of deep cryogenic sleep

The class has ended. I am the only one remaining in the meet.

Then it hits me. The epiphany that I have to demonstrate the working of the Cyrus Beck line clipping algorithm in the next class, evokes embers of trepidation in my mind.

I follow the following well-defined algorithm-

1. Open the assignment, copy the problem statement.
2. Open a new tab, press CTRL+V and hit enter.
3. Browse through the Github repositories of genius people who have made my life easy.
4. Change the variables in order to avoid plagiarism.
5. Carefully listen to the questions others are being asked.
7. Give presentation with full confidence.
8. Repeat for the next presentation.

Phew! That was some serious work. Life is not a bed full of roses,

you see. I finally have some free time to relax and rejuvenate.

Mom calls out my name and asks me run an errand

Ugh! Why did I have to jinx myself?

I go out and get the groceries from the store, all the while staying connected to the meet on my phone.

Another class is lined up.

After three hours

Finally! The classes are over for today. Now let me do the things that will actually get me a placement. I open Leetcode and set the filter for 'easy' questions.

Phone starts to ring

Oh, Naman is calling, just the break I needed.

"What do you mean, 'we have a test tomorrow'?"

"That too at 7 PM?"

But hadn't we given tests just a week ago?

Naman replies with a dejected voice, "The teacher said that, since we are all at our homes, so we should be ready and available at all times"

Yes, that is correct. I can and will most certainly dedicate most of my productive time to the college, just because I am enjoying the comforts of my home. And am I even 'enjoying' these comforts anymore?

Okay, so let's start studying for the test. Maybe this might help me become a successful person.

By the time I finish the last PPT, the clock has already struck two. I am really exhausted now. I need some gossip and entertainment. I open YouTube and instinctively search for the Goss-wali show.

Now that is some wholesome entertainment, the reporters shouting at the top of their voices, showcasing private WhatsApp chats of celebrities, blaming, naming, illogical arguments, etc. They rightly say that 'entertainment' is the name of the game.

As I check my WhatsApp chats for the last time before going to sleep, I am in for a rude surprise. No Way! Tomorrow's test has been changed to an online viva? Even though this pandemic life has taught me a lot about how to deal with existential crises, it's not easy to deal with this bouncer. Now that I come to think of it, this is the new normal for me.

I am a rebel. I am a survivor. I have almost stopped caring what my SGPA would be this semester. With these thoughts of valor and fearlessness, I finally go to sleep.

If you're reading this, I assume you look at yourself as a young, 'modern', 'progressive', and 'educated' individual who respects women and considers them to be equal. I mean in the 21st century how could you still consider women as the inferior sex right? And I too was just like you until I came across an interview talking about how sexist ideas, thoughts, and slangs are hardcoded into our brains, how 'inherently sexist' we are, and how we don't even realize it. It's not about respecting them, or considering them as equal, but about insanely small sexist things that we have heard (and ignored) and said, all the while acknowledging the privilege that we as males have in our system. That one interview changed my perspective about sexism and if you're like me, I think this article will change yours too.

The interviewee was asked at one point about his thoughts on sexism and whether it is possible to achieve a receptive and equal society. To my surprise, he answered it with a blunt 'No!'. He continued, "Sexism is so deeply hardcoded in our brains that we don't even realize before making a sexist judgment or comment."

At first, it sounds like an irrational statement but when you give it a deeper thought, you realize the gravitas of this statement. Do you remember hearing something like "Itna ladkiyo ki tarah kyu ro rha hain?" or calling out a slow sprinter as someone who 'runs like a girl'? Or telling someone to "Man up!" or "Be a man!". Have you ever been handed the cheque while dining at a restaurant with your sister or friend? Even though these examples might seem like unimportant and less pressing matters, they are parts of our dialogue with one another on a daily basis and affect our perception of the genders to an unquantifiable extent. These examples reflect the stereotypes that have been encoded into our brains right from our childhoods. What makes it even worse is the fact that we don't even realize it. Our sisters would be told to do things a certain way, sit in a certain way, talk in a certain way while we enjoyed all the freedom in the world. An incident that happened with me recently is a perfect example of this. I had to stay alone with my elder sister for a few weeks, and we decided to divide all the household chores because of which she ended up with two-thirds of all the work. It is clear that by virtue of being a boy, I do enjoy certain privileges. These privileges have nothing to do with my ability or talent. Rather I am entitled to them because of my gender and that is a problem. Because these privileges and stereotypes are so deeply rooted in our minds, we very easily ignore them.

Is it possible to eradicate this inherent sexism? I believe that would be an uphill battle. Stereotypes, biases and sexist slurs are deeply rooted in our brains. The only way it can be done, is to first acknowledge the privilege that we as men have and then try to be less sexist every single day. If someone would have called me a sexist before I watched this interview, I would have laughed it off but now I realize how ignorant I have been towards the 'subtly sexist' side of me. The way we have been brought up, sexism is subtly hardwired into our brains and that needs to stop. But first, we need to acknowledge the privileges that society has given us. That is exactly what we need to do. We have a long way to go and for that self-churning must be a continuous process.

Yash Sethia

SUBTLY SEXIST

AWARDS AND ACHIEVEMENTS : INDIVIDUAL

Ankit Sobti, batch of 2009, co-founder of Postman and featured in Fortune 40 under 40 (2018 and 2017) and Fortune 30 under 30 (2016). His startup, Postman, helps software developers build, design and collaborate on APIs and recently achieved a valuation of a whopping \$2 billion, making them India's latest Unicorn. In its latest round, Postman successfully raised \$150 million in funding.



Deepak Singh, ECE, third year for bagging the first rank at the recently concluded Symposium on International Automotive Technology. ARAI in association with SAEINDIA, NATRIP and SAE International (USA) organised Symposium on International Automotive Technology 2019 (SIAT 2019).

Team Daedalus Racing bagged the second runner's up position in the prestigious FMAE BAJA challenge held in Hyderabad, for designing and fabricating ATVs. The car, MARK-1, driven by Praveen Chirawat, grabbed the following accolades for its performance:

1. 2nd in Sales Presentation
2. 1st in Acceleration (drove 100m in 7secs)
3. 1st in Suspension and Traction
4. 3rd in Endurance Race

The table tennis team from NSUT participating in the Festival of Youth Sports at Shree Ram College of Commerce achieved 2nd place in the tournament. The team comprised Shubh Gupta, Sudhanshu Shekhar, and Yash Agarwal.



Shruti Gochhwal, an NSIT alumna of the Class of 2014, finds her mention in the prestigious Forbes 30 Under 30 - Asia - Industry, Manufacturing and Energy 2020 list. She is the co-founder of Zapfresh, an online brand focusing on the hygienic procurement and hassle free delivery of fresh meat, and a wide range of ready-to-cook/eat products.

Howling Hygnas Team, comprising Manas Gupta, Aaina Goyal, Jai Arora and Nimesh Shahdarpuri won The Best Beginner Team award under special category prizes at HackVSIT 3.0, out of 100+ teams.

Yaman Singla (NSUT Alumni) for being selected for the Heidelberg Laureate Forum (HLF) 2020. HLF, which is an annual event held in Heidelberg, Germany. The forum offers bright young researchers the incredible opportunity to interact with some of the most celebrated names in their fields. He was also awarded the prestigious Google India PhD Fellowship 2020. He is amongst four PhD students who have been selected this year.



According to the ARIIA 2020 Rankings released by the Government of India in an online ceremony, Netaji Subhas University of Technology secured the 5th Rank in the State Funded Universities. We would like to showcase one of the initiatives by NSUT, which is crucial to this achievement, NSUT-IIF. It is a technology and business incubator that aims to sow the seeds of innovation and entrepreneurship in young minds. It's a community of 50 founders, which has till now funded 12 startups and won 30 awards till now.

Researchers from Stanford University published a list of top 100,000 scientists across all fields and nationalities. The list had 6 researchers from NSUT namely, Tulasi Satyanarayana, Deepak Kr Sharma, Raj Senani, and Vijay Gup-

ta who have received recognition for a career-long contribution along with Vijander Singh and Sanjay K Dhurandher who have been exceptionally prolific researchers in the year 2019.

A team comprising Shikhar Agnihotri, Abhishek Dudeja and Soumya Himanish have bagged the first position at Walmart SparkPlug-a national level hackathon which witnessed a participation of more than four thousand teams.

Raunit Singh, a Junior Year IT student won Hack@Home- a participate-from-home Hackathon organised by Atlassian. His exemplary performance made him stand out among more than two thousand participants from colleges all over India.



Three teams from NSUT emerged as the winners of Smart India Hackathon, 2020- Software Edition. The following are the teams that have accomplished this feat:-

Team Rocket
Problem Code: AS119
Members: Aashna Jha, Abhishek Chopra, Kanishk Gupta, Ridam Srivastava, Akash Dhiman, Vishesh Bhaskar

ARES 101
Problem Code: AK209
Members: Prince Gupta, Nishant Chahar, Devansh Batra, Priya Chugh, Nipun Garg, Yash Aggarwal

Neurally Efficient
Problem Code: DS164
Members: Dalip Patra, Akhil Vaid, Vibhav Sharma, Abhinav Vadhera, Bhumiika Gandhi, Anirudh Goel

Several remarkable students qualified GSOC this year:

1. Nipun Garg- Android Graphics Tool Team
2. Prakash Ujjwal - Sugar Labs
3. Deepak Khatri - BeagleBoard.org
4. Nilesh Patra - Debian
5. Devansh Batra - OpenCV

SOCIETY ACHIEVEMENTS

International Organization of Software Developers (IOSD) NSUT

NESCII - The Blogging Platform

It is a blogging platform where students and alumni can share their interview experience, literature, art, history, ideas about technology and beyond.

NSUT-Daily App

It will be a daily use cross-platform mobile application for students of NSUT. The students will be able to check their attendance, look up notices & circulars along with other essential features of IMS.

THE DEBUGGING SOCIETY OF NSUT

Organized "CODE THE COVID", an online competitive programming hackathon successfully in collaboration with Dare 2 compete. NSIT bagged 4th position in organisers leaderboard and saw a participation of more than 6500 participants from all over India.

ARES Robotics

Runners up in the Indian Rover Challenge Design 2020, an international event which challenges to design Mars rovers which shall be fully equipped and mission ready for operation on Mars and witnessed participation from several countries (USA, Singapore, Poland, Bangladesh, Sri Lanka etc).



IEEE NSUT

Awards:

1. Outstanding Student Volunteer: Sukriti Chaudhary (Chairperson IEEE NSUT Student Branch 2019-20) and Ritvik Bansal (Vice chairperson IEEE NSUT Student branch 2019-20)

2. Outstanding WIE volunteer : Mridul Chaba (Vice chairperson IEEE NSUT Student branch 2019-20) and Mikhael (CS chapter chair)

3. JK Pal Memorial Award: Archit Goswami (Vice chairperson IEEE NSUT Student branch 2019-20)



TEAM KALPANA

Secured 10th position out of 93 teams that participated, scoring 97.90% in the CanSat 2020 organised by American Astronautical Society, NASA, Lockheed Martin.

Overall Rank	Team Number	Overall Score	PDR Score	CDR Score	Team Name	Country
1	1360	98.77%	98.45%	99.08%	UHCMC Team Onipa'a	United States
2	1320	98.50%	98.84%	98.17%	Narantaka	Indonesia
3	4920	98.40%	98.64%	98.17%	Manchester CanSat Project	United Kingdom
4	7840	98.37%	99.03%	97.71%	Grizu-263	Turkey
5	2280	98.19%	98.45%	97.94%	Team Thor	Mexico
6	5880	98.15%	98.83%	97.48%	DTU Altair	India
7	3840	98.00%	98.06%	97.94%	ASTRAL	India
8	4560	97.98%	98.26%	97.71%	E-Cube	Turkey
9	1240	97.92%	97.67%	98.17%	DJS Arya	India
10	5160	97.90%	97.87%	97.94%	GAGAN	India

NSS NSUT CELL

Virtual Tour: The 8 Siblings

20th July, 2020 - 30th July, 2020 The initiative was taken by NSS NSUT CELL in collaboration with NSS cells of 6 other colleges.

Intensive And Focused COVID-19 Campaign

In the wake of the upcoming festive winter season, NSS NSUT CELL organised a 6- week activity Under "Project Aawam".

THE NSUT QUIZ CLUB

- Kartikeya Rai and Subhash Chandra - 3rd position in JMC Cinema Quiz
- Kartikeya Rai and Subhash Chandra - 2nd position NIFT General Quiz
- Ishan Chourasia - 2nd in India Quiz organised by Karwaan in collaboration with Onights Ramjas
- Ishan Chourasia - 3rd in India Quiz held at Ramanujan College
- Aaryan Raj Sarda - 4th in General Quiz, DTU fest
- Pranay Kothari, Ritesh Kumar, Arunav Goel - 1st in General Quiz, SGTB Khalsa College
- Pranay Kothari and Arunav Goel - 2nd in Tech Quiz held at Maitreyi College
- Ankit Jain and Aniket Verma - First in Airtel Tech0, organized by Airtel
- Ankit Jain and Aniket Verma - First runners up, MSIT Tech Quiz
- Ankit Jain and Aniket Verma - 2nd Runners up, JIIMS Techno-Management Quiz, organized by Ministry of I&B
- Ankit Jain and Aniket Verma - 2nd Runners up, Tata Crucible Delhi Round
- Tanmay Gairola and Sarthak Janjuha - 3rd in JMC Cinema Quiz
- Maanil Salhotra, Aaditya Puri, Vishesh, Tanmay Gairola - 2nd in Keep it Reel, organized by Enactus NSUT during Aspire '20
- Aniket Verma - 3rd position SRCC Biz-Eco Quiz
- Aniket Verma and Manad Gupta - 3rd position Fandom Quiz SRCC



ENACTUS NSUT

Project Aashray

Project Aashray is an online platform that sustains a pan-India business ecosystem for essential products and services required during the COVID-19 pandemic. Project Aashray has been able to generate 125+ volunteers, garnered more than 35k page views, it now operates in over 25 cities pan India and has association with over 500 firms. Project Aashray has won the Ford COVID-19 challenge and received a grant worth \$1,500 for the implementation of the project.

Project Kitabab, our project on Urdu Calligraphy, had set up a stall at Hunar Haat. It was graced by the presence of PM Sh Narendra Modi, Vice President of India Sh M Venkaiah Naidu and Union Minister of Minority Affairs Sh Mukhtar Abbas Naqvi. The project was featured in The Hindu, Dainik Jagran, Laffaz Media where the articles talked about how Project Kitabab acts as a sunbeam for the Katibs and the dying art of Urdu and Arabic calligraphy.

Urdu Calligraphy Course

Project Kitabab launched a comprehensive and concise course about Urdu Calligraphy on Udemy. This course includes everything there is about this field of art.



Project Aahar, our project on agriculture and hydroponics, was recognized by Krishi Jagran, The Hindu, Life of Dwarkawala for being flag bearers of sustainable agriculture.

Aspire '20

The annual Social Entrepreneurship Conclave- We successfully organised the 7th edition of its annual fest, Aspire 2020 on 15th and 16th February 2020. We organised a total of 7 events which witnessed participation from all over India, with a footfall of 1500+.

ROTARACT CLUB

Phase 2-SAKTI

The project aimed to express our gratitude towards corona warriors by giving them masks, sanitizers, and chocolates for helping us in our worst times.



Project Name: Code Red

To break the stereotypes and bring awareness about menstruation in society. Rotary Turkey District 2430 collaborated with Rotaract Club of NSIT making this event international and help break the stereotypes and spread awareness across countries.

District Administrative Council for Rotaract District 3011

At present, 2 members of the Club have been given a post in the District Administrative Council for Rotaract District 3011. Rtr. Ankur Ganvir, District Co-chair Administration & Rtr. Nikita Prasad, District Chair Gender Development.

FINSOC - FINANCE SOCIETY OF NSUT

Finance Skipper

The annual event of the Finsoc Society that is organized every year in the month of January kick-started its very first session in 2020 with the presence of honourable corporate giants Mr. Sumit Kapoor (the former CFO of Zee Media Corporation Limited) and Mr. Bharat Venishetti (the Senior Finance Director at Snapdeal).

SHATRANJ

EVENT NAME: Quarantine Chess Battle

Online event

A chess team battle where different colleges participated in the competition with their own teams and several matches were played in 2 hours.

PARTICIPANTS: 25 Players from SHATRANJ participated as a team.

RESULT: Secured 3rd position along with IIT Delhi and IIT Madras.

QUARANTINE CHESS BATTLE		
FINALE		
FINAL STANDINGS		
RANK	NAME	POINTS
1	IIT BOMBAY	852
2	MAHAKNIGHTS	841
3	IIT DELHI-IIT MADRAS + NSUT DELHI	802
4	IIT KANPUR + IIT BHU	779
5	IIT BHUBANESHWAR + IIT ROHAR + DTU	776
6	IIT ROORKEE + IIT HYDERABAD	676
7	IIT KHARAGPUR	666
8	BITS UNITED	628
9	IIT PATNA + IIT TIRUPATI + MSU VADODARA + IIT JODHPUR	593
10	UNITED TEAMS OF AUSTRALIA, ENGLAND, SOUTH AFRICA, LEBANON AND SINGAPORE	472

SHATRANJ DELHI CHESS CHALLENGE	
300+	20,000+
WINNERS	
OPEN	GIRLS
Yashasree Saini NSUT	Swetana Snigdha NSUT
Bhavesh Das NSUT	Priyanshi
Aniket Chaurasia NSUT	Shalini Kumari ICETUW

EVENT NAME: NSUT's Delhi Chess Challenge

Online event

A chess competition was organized where many students participated from various colleges and played over 300+ games with time control 3min+0sec in 2 hours.

PARTICIPANTS: Solo participation of 60+ students.

RESULT: OPEN: 1st - Yashasree Saini & GIRLS: 1st - Swetana Snigdha, 2nd - Bhavesh Das, 2nd - Priyanshi 3rd - Aaket Chaurasia, 3rd - Shalini Kumari

The Finance and Economics Society (FES) NSUT

Red Brick Summit: Parivartan - Strategy Case Competition, IIM Ahmedabad: Jayshree, Ritvik & Mehak - Finalists, Top 10 out of 800+ UG & PG teams

Metier: Case Study Competition, Enactus Thapar: 2nd Position - Ritvik Arora & Jayshree Poddar

Consilium : NSUT's Annual Business Conclave (31st Jan 2020 - 2nd Feb 2020)

FES hosted 6 events and a speaker session under Consilium'20. The events saw participation from 2000+ students across the country with prizes worth Rs. 50,000 up for grabs.

The PandEpic Case Challenge (26th September - 3rd October 2020)

FES organised a case study event on the Indian smartphone industry. The event saw over 700 registrations with participation from prestigious colleges such as IITs, IIMs and DU colleges.

E-CELL NSUT

E-Summit '20 (13th - 14th February '20)

The 13th and 14th of February 2020 marked the conduct of eCell's two-day flagship event. E Summit was a series of competitions aimed at developing and inculcating entrepreneurial skills into our society. The competitive events included: Unravel, Start-up Combat, Instaseed and Bellweather. Comedy Evening - Samay Raina, winner of Comicstaan 2, performed for a little under an hour, the event being attended by 400+ people.



National Entrepreneurship Challenge, IIT Bombay (1st - 3rd February 2020)

An eleven-member delegation from eCell NSUT participated in the National Entrepreneurship Challenge (NEC) 2020 (advanced division) under E-SUMMIT '20 organized by IIT- Bombay. They procured 7th Rank out of 150+ college team participation from all over India.

Members of eCell NSUT obtained the **first position in the Business Plan Competition organized by Maitreyi College** on 7th February 2020. The competition challenged the managerial and business acumen of the participants.

Representatives of eCell NSUT secured the **third position at IIT Delhi for Bulls and Bears, a stock pitching event**, held under Parivartan '20.

Podcast and Webinar Series: Ace The Space

The disorder and confusion instigated by the pandemic inspired e-Cell to create an environment conducive to learning in the form of the webinar series, Ace the Space.

Incubation Department: Keeping with our vision we instituted an Incubation Department this session, to provide an efficacious platform for startups to turn their ingenious idea into a product. Providing them with the required resources, from mentorship to legal and financial assistance.

NAKSHATRA: The Astronomy and Mathematics Club of NSUT

Team member Avinash Swaminathan published a paper Two-Step Classification using Recasted Data for Low Resource Settings, in the Asia-Pacific Chapter of the Association for Computational Linguistics (AACL-IJCNLP) 2020. He also published a paper titled A Preliminary Exploration of GANs for Keyphrase Generation in the 2020 Conference on Empirical Methods in Natural Language Processing.

Nakshatra has an old tradition of conducting the Night's Watch - an exploratory star-gazing event which gathers a number of enthusiastic watchers under the night sky.

Nakul Aggarwal (Batch of 2019), former President, secured AIR 5 in JEST (Joint Entrance Screening Test) 2020 and scored 99.94 percentile in the field of Physics.



ASHWAMEDH

Ashwamedh Stage:

Muktibodh

- Performed for IIIT Delhi at Befikr - The Stage Play event [17 January]: Best Actor [Ishan Bhardwaj]
- Performed for 3rd Noida Rangmahotsav at Ishan College: Best Actor 2nd [Ishan Bhardwaj], Best Supporting Actor 2nd [Dhwal Rajora]
- Performed for Satyawati College at Parvaaz '20: Best Actor (Male) [Ishan Bhardwaj], Best Actor (Female) [Sanchi Bhal-la], 2nd Best Production
- Performed for DDUC (Deen Dayal Upadhyaya College) at Prastuti'20 [29 February]: Best Production, Best Actor [Ishan Bhardwaj]
- Our Play was also featured in The Times of India by Anand L. Rai. & The Hindustan Times by Atelier.



Khamosh Adaalat Jaari Hai

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.

Ashwamedh Street:

Ashwamedh Street bagged the 2nd Position at MNIT Jaipur's Street Play Competition held in February 2020. 20+ teams from across the country participated in the event.

DEBSOC-The Debating Society of NSUT

Rahul Sharma, an ECE sophomore, broke as an adjudicator at IITBHU PD'20 and Safar Fundraiser PD 2020 held by Ashoka University

Disputandum '20

The Debating Society of NSUT is also organising Disputandum: The Online debating and Literary Fest of NSUT. The event is comprised of 8 events: 3 debating competitions and 5 literary events.

TATSAM

Ashu-bhashan

Akash Midha secured 2nd position in Ashu-bhashan (Extempore), held at LADY SHRIRAM COLLEGE (UNIVERSITY OF DELHI).

VENATUS (THE GAMING SOCIETY OF NSUT)

GCL (Gamers Changing Lives)

An exciting online gaming fundraiser event to let go of the quarantine blues and boring social media feed.

Battle for Help

The event was conducted in collaboration with the Nanhe Pakshi foundation which aims at bettering the life of underprivileged children.



Harshit Kumar, from ICE Batch of 2017, has secured an All India Rank 150 in the Civil Services Examination 2019 and has expressed the desire of serving the nation by joining the Indian Administrative Services.

Vaibhav: What was a typical day in your life during preparation like?

Harshit: I graduated in the year 2017 and joined coaching which pertained to the civil service exam preparation thereafter. During the first year, my routine was to wake up, go to the academy, spend about six to seven hours there, come back, take rest and resume my studies again. It was basically 'eat, study, sleep and repeat' and I had little to no social life and was not on any social media. I had minimal interaction with others and I actively ensured that any interaction that I have was related to my preparation. I made it to the interview stage but couldn't make it past that stage. I decided to take the examination again the following year without relying on any academy but my iron-clad determination. The routine in the second year was similar to the first year but this time I had planned my daily routine which also incorporated exercise and some free time to engage myself in my social circle. I wasn't as isolated as I was previously and I also watched YouTube and listened to music among other things.

Vaibhav: You took coaching for your first attempt and didn't for your second attempt. So, do you consider it essential for an aspirant to take coaching? What role does it play in his/her preparation?

Harshit: Opting for professional coaching is absolutely not essential. But in my case, I needed a direction. Initially, I was quite lost and unsure of what to do which made me seek guidance from professionals. What coaching does is that it provides you with a direction and an elaborate road map of what to expect and follow, and you are taught what you have to cover. However, now that guidance is quite easily available on the internet and in related videos, one can easily save the six to seven hours spent at coaching academies by following the strategies available on online resources. Nevertheless, mock tests are entirely a different thing as one needs to practise the mockups extensively by practising taking their exams as they are extremely critical and

HARSHIT KUMAR

RANK 150 IN CSE 2019

essential for one's preparation.

Vaibhav: When did you start your preparation? And did you have any specific goal regarding the time you would take for finishing the core syllabus when you started?

Harshit: I started preparing when I was in my third year of Bachelors. I was reading stuff related to UPSC throughout my third and fourth years, but I did not have any specific target or goal which I had set for myself. It was not a targeted study and I just wanted to explore and know more about the possible future endeavours that I could opt for after my graduation. Due to this, I did not give any mock tests during my time in college. I adopted an exam-focused and serious study mind only after I had passed out of my college and planned extensively to reach my goal.

Vaibhav: Looking back, do you think that you could have saved time by starting to seriously study earlier than you did?

Harshit: Yes, I believe I could have. But there were a lot of other factors involved such as whether to sit for placements or not, which I did. I found myself at a crossroad when I had to determine that once placed, whether to continue the job or to leave it for the preparation. There was a lack of clarity on my end, and due to there being no surety, I was in a dilemma all the time whether I should do this or do that. There were many external pressures from different social circles, from parents, from friends and from within. So, I was not able to make many decisions at the right time which did lead to an inefficient management of time and productivity. But in the end, everything went well by god's grace.

Vaibhav: What was your motivation for giving the civil services?

Harshit: I believe in the saying "You Only Live Once". So, my own principles led me to believe that if I only live once then I should give importance to something beyond monetary value and financial stability. Being in NSIT, there are a lot of avenues and opportunities to earn a lot of money through research and internship at a really young and impressionable age. For me, making my life meaningful was much more important. I wanted to be satisfied at the end of the day and if whatever I am doing in my capacity, be it personal or professional, helps even a single person then that it itself would give me immense joy. This was my main motivation.

Vaibhav: How high is the competition for this exam? Do all the rankers get their preferences?

Harshit: The competition is so cutthroat and ruthless that on one mark, you have almost fifteen ranks. This one mark is out of a total weightage of 2025 which goes on to show how high the competition is and how much each mark matters. In my opinion, out of everyone who clears the Mains examination, most of the aspirants are on the same level and whatever happens next is

heavily dependent on the interview rounds. One question here or there, five marks here or there will be the factor which will get you to the list or not. I think the people who attend the interview every year are more or less the same. Not all rankers get their first preferences and it comes down to what fate has in store for them.

Vaibhav: What went wrong in your first attempt? What did you do to overcome that hurdle and succeed in your second attempt?

Harshit: I gave my first attempt just after the coaching ended. My coaching ended in April, and in June I had cleared the Prelims. In my social circle, I was the only one who had cleared the Prelims in the first attempt. As a result, I had no fellow peers around me and no peer study group which was preparing for Mains. I am someone who performs well by studying in a group. This was the case in college and during the second attempt as well. So, I was left alone after the prelims in this regard. I was directionless and clueless about what to do so I did whatever I could from my side by searching on the internet. I talked to my teachers at the coaching and somehow made it to the interview. Fortunately, I could not make it to the list.

In my second attempt, I made handwritten notes on my optional subject and I made sure to study from a number of places and consult a number of exam resources and made handwritten notes of almost everything. For General Studies, I prepared a lot of small topics which I had left out in my first attempt. I made sure that no topics were left untouched. I also gave numerous tests for Prelims and Mains and as a result, I was confident enough by the time I had given Mains and was hopeful regarding the results.

Vaibhav: In your first attempt, did anything specific go wrong in the interview?

Harshit: The interview round is not exactly an interview but is a personality test. The board is not checking your knowledge because your knowledge has already been thoroughly checked in the previous two rounds. What they are looking for is your attitude, your personality, your candour, uprightness and your integrity. In my interview in the first attempt, I made a few guesses, and the chairman present in the board was very vocal about me not making any guesses. He told me that if I didn't know then I should just have said that I didn't know. But in the subsequent attempt, I rectified the similar mistakes which I was called out for in my first attempt and got relatively better marks.

Vaibhav: What was your strategy to conquer the vast and nearly infinite syllabus during both your attempts?

Harshit: I had very little time in my first attempt and had to strategically select topics to study that had a higher weightage due to time constraints. So I was able to prepare the important things in the Mains syllabus which more or less overlapped with the Prelims part. Hence, I missed out the parts highly specific to Mains. That was where I lost quite a bit of marks. The syllabus is very detailed and defined but it can be broken down into smaller topics and sub-topics, which I did in my second attempt and went through each given topic in detail.

Vaibhav: One major problem which I believe every aspirant faces

is that of consistency. How did you keep yourself consistent and manage not to slack off?

Harshit: For me, discipline, motivation and consistency were not that big of a deal to conquer. I always believe that one has to be internally motivated before attempting to venture into any activity which requires a competitive spirit. This is because external motivation like quotes, movies or songs are very temporary and transient in nature. We should always remember why we started to walk on this path and why we want to do this. So, if you have that clarity of thought, motivation is not really that hard to procure. One should have a crystal clear hold of their reason and their ambition to do the task in hand and motivation will surely follow.

Vaibhav: Coming to your optional subject, why did you choose it and were you initially a beginner? How much time did you take to become well versed with it?

Harshit: My optional subject was Sociology and I opted for it due to numerous reasons. The first and the most pivotal reason was that my subject 'Instrumentation and Control' was not available in the optional subject list. The second was that the material for the same was readily available in the market and was easy to acquire from online resources. The syllabus also overlaps a bit with the main syllabus and more often than not, one essay comes in the paper which has a topic delving into the spheres of Sociology. Also, I was interested in social institutions like marriage, family, caste etc. and was thus more interested in reading about them. Yes, I was an absolute beginner in sociology. And I received professional coaching for it. But we have to read on our own to get a good grasp on the concepts. We have to observe our surroundings and relate that to sociological concepts and that is how I approached and solidified my learnings on the subject. One has to complete the syllabus. I took an interest in the subject so I ventured deeper into it and I believe that one can take anywhere from three months to eight months to complete the syllabus. I think three months is more than enough to get good marks if not exemplary.

Vaibhav: What is the best advice that you have come across or would like to give to fellow aspirants while they are preparing for the exam? Looking back, what would be the one thing you wish you had learnt earlier, which could have helped you a lot?

Harshit: The best advice which I had the fortune of receiving was from the Director here at the institute. He enlightened me with the virtue of shram (hard work) and tkshma (forgiveness). He guided and advised me to always pursue the life lived through hard work and repentance and emphasized the morality of forgiveness as one finds it almost non-existent in today's dog eat dog world. He told us that if the persons' intentions are not mala fide, then one should find it in oneself the strength to forgive and let bygones be bygones. This would be the best advice I had the fortune of being blessed with and I try to abide by this principle in my life. Coming to the next part of the question, clarity of thought and removal of doubt are some things that I should have understood earlier. But all's well that ends well.



Could you please tell us a bit about your journey so far?

I had always known that I was interested in the technical domain but I did try exploring all the options I had available during my time at NSIT - from trying my hand at case studies in the early years to being a part of Crescendo (The Music Society of NSUT) and my beloved, The Alliance. When I did start pursuing my technical calling, I researched under professors' guidance and was also part of the NSIT web team where I contributed to the project of generating official NSIT email IDs for students and staff.

After having explored the various avenues available to me, I then started narrowing down my interests in my third year. I got involved in contributing to open-source software and actively participating in hackathons. My open-source journey saw me clear the Rails Girls Summer of Code as well. As of late, I had been working at Adobe for the past two years.

If the plan had been to apply to a Masters program, why go for a job at Adobe upon the completion of B.Tech? What would be your suggestion to your juniors?

Since the stakes get higher as you get older, I wanted to make a well-informed decision. In my third year, I felt that I didn't have enough clarity to make that decision so I thought that some experience in the industry would help. That being said, I do know a lot of people who have gone for it directly after completing their undergraduate studies. Perhaps it's because of a sense of security that a job provides you, you might not want to venture outside of it early on. After becoming used to a new routine, uprooting your life and coming out of your comfort zone to go for your higher studies could be a difficult task - which is

IPSHITA CHATTERJEE

COE, BATCH OF 2018 (UNIVERSITY OF OXFORD)

something that many can relate to.

There are some who recommend pursuing higher studies as soon as one completes their college education and then there are others who recommend working in a professional setting for some time to gain more experience; it is all fairly subjective. For me, the benefits of working after having graduated from college are financial stability, industry experience and having better insight. I had applied in my final year, I would not have had that clarity that I now possess.

How important is previous exposure to research? Did you have any?

Prior research experience is definitely helpful, however, it is more important to clearly demonstrate that you are passionate about it. Many students say that they are interested in a particular field but you can always tell when someone's putting up a façade; this holds true even during placement drives. I possessed no formal research experience but I had worked under professors and do have a few research papers to my name. I did not have a particular niche that I focused upon. Instead, I tried my hands at a number of things, be it quantum computing, NLP and also Computer Vision on which my B.Tech Project was focused on. I firmly believe that is really how you should portray yourself in your SOP - as an enthusiastic learner. It's supposed to be your story so try not to be swayed by what others are doing.

What would be your advice to your juniors?

I think the most important thing to understand in your college life is to avoid being affected by people around you. You should not succumb to the imposter syndrome (which does get to the best of us) when attempting to do what others are doing. You should concentrate on doing things with passion and dedication. I believe that your seniors are the best people to approach for guidance at times when you feel lost or clueless. My seniors have helped me a lot during my 4-year long journey in college and then, even after that. Their help and kindness will always be appreciated.

SARTHAK TANDON

COE BATCH OF 2020 (CARNEGIE MELLON UNIVERSITY, COLUMBIA UNIVERSITY, AND NEW YORK UNIVERSITY)

Could you start by telling us about your field of research? What was your research paper based upon?

Yes, I had been very interested in computer science, particularly data science. My paper, which is currently being reviewed and has not been published yet, was related to evolutionary computing. It is not necessary to have papers to your name, just mention the name of professors that you did your research with. Also, you can just let them know that your paper is being reviewed and they will understand.

Can you tell us a bit about the scope and relevance of research for and after getting admitted into such prestigious universities?

Many colleges have two tracks, a thesis track and a non-thesis track. The thesis track is for the research-oriented and the latter is industry oriented. This is especially applicable to Canadian universities. The relevance of research is as follows: you may or may not do research but you need to show you have the potential. You can do so by applying for teaching assistant (TA) positions, or by working on projects under your professors; I worked with Dr Swati Aggarwal. The admissions committee understands that it is unreasonable to expect third years to have a lot of research experience.

At the end of your new stint, do see yourself pursuing further research work or do you see yourself working for one of the big-tech companies?

That's a difficult question, I haven't applied for a thesis track in my application, but that can be changed. In CMU it takes 3 semesters to complete the course but you can extend it to 4, I will try to look for a job but if I like the work that I'll be doing then I might think about pursuing a PhD.

What role did NSUT (formerly NSIT) play in your success, if any?

The role it played mostly was providing me with in-



credible professors who gave highly valuable letters of recommendation and oversaw my research. NSIT is an incredible college, and it provided me with the environment I needed to pursue my goal. The best person to help you with the logistics of MS is Bhattia Sir. He is very helpful and approachable, you can even call him late at night and he'll never judge you for any questions that you might have.

When should students who aspire for MS start their preparation?

The entire process will take you less than a year so don't worry much unless you're already in the third year. First thing you should do is give GRE, just to see where you stand as early as possible. I personally would not recommend coaching, just focus on self-study, do the guides. I think the second year would be a good time for GRE. Toefl is much easier than GRE; you need not prepare for it specifically. Try to get a score of 330+ in the GRE and a 110+ in TOEFL. Take a month or two to work on your SOP - for it is the most important thing.

What would you say are the hot topics in research as of now?

Generating nets, evolutionary computing and augmented reality, basically human-computer interaction. I believe that the professors will be a better guide for this.



RAGHAV MARWAHA

ECE BATCH OF 2020 (CARNEGIE MELLON UNIVERSITY, NORTHEASTERN UNIVERSITY AND ROCHESTER INSTITUTE OF TECHNOLOGY)

the goal but who knows what the future holds.

If you were inclined towards placements, why did you leave the comfort of on-campus placements and what do you think of the hassles associated with H1B?

I opted to not sit for placements for I was confident that I would get accepted into one university or the other. The fields I've chosen are in their infancy stage in India at the moment. Ubisoft Pune and a few are there but those are just backdoor offices. I wanted to contribute at the highest level, so I wanted to work abroad. The hassles with H1B are evident, but you face problems all your life anyway, that shouldn't deter you from fighting for what you want.

How do you approach companies?

I was always on the career page of Ubisoft Pune. I also mailed companies vigorously and got helpful responses as well. You can always try other portals such as Internshala and LinkedIn. A bit of advice, start from startups and then move on to big companies.

Can you give us insight into the financial aspect of it all?

So this is a crucial thing and is the main reason I'm confused about which university to join. Whenever you apply for a particular university there will be an option to be considered for financial aid. From Rochester University, I got a \$10,000 tuition fee relaxation and an additional \$5000 off too on the basis of my profile. For the rest I didn't get a scholarship, others might have. It's \$140,000 for two years. The thing is you will either have a lot of savings or you're going to be expecting a scholarship from the university or industrial scholarships like the Randy Pausch scholarship for students aspiring to go into the gaming industry. Also, there are various opportunities to earn in the university itself like working as a TA.

Can you start by telling us about what things actually help you the most in the process?

See, the process is a black box. You never know what they value the most and sometimes it can indeed be a mystery. Some students get in with no papers at all, there are others who don't even with quality papers in good conferences and a high CGPA, but to be safe, you should always aspire for quality research work and projects. Another important thing is that you should pick your projects related to the field you'll be applying for. Also, the professors' letters of recommendation play a very crucial role in letting the committee know about your dedication and resolve towards your work.

When should an MS aspirant start his preparation?

When I was in my second year, I was sure I wasn't interested in the courses the college was teaching, so in my 4th semester, I decided I wanted to go abroad and study. I wanted to specialise in either cybersecurity or game development. This clarity helped me in streamlining my future endeavours. I took the GRE in the 7th semester but did a lot of personal projects from second year itself. They were related to my chosen fields and thus I could tailor my profile.

At the end of your stint, do you see yourself at a big-tech company or do you see yourself going for further research?

Of the universities I've been offered admission in, two are famous for their industrial scope. I'm more inclined towards working, probably at a renowned company like Rockstar. That was always

NSUT IN THE NEWS

Photograph by Rishabh Mittal

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NOTV EDUCATION
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23 Scientists From Delhi Government Universities In World's Top 2% Scientists List By Stanford University

As many as 23 scientists from government universities in Delhi have been placed in the list of world's top 2% scientists by Stanford University. The list was released on October 16 in the PLOS journal and contains names of over 1,00,000 scientists.

Education | Edited by Bishal Kalita | Updated: Nov 10, 2020 10:42 am IST

NOV 15, 2020

जागरण

एनएसयूटी के विद्यार्थियों को आधुनिक शिक्षा के साथ मिलेगी अंतरराष्ट्रीय स्तरीय सुविधा



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इन स्मार्ट कक्षाओं का लाभ एनएसयूटी कैम्पस में पढ़ने वाले विद्यार्थियों के साथ इंटर और वेस्ट कैम्पस यानी नीता कॉलोनी ब्लॉक अवेकस्ट इन्स्टीट्यूट ऑफ एडवांस्ड कम्प्यूटेशनल टेक्नोलॉजी एंड डिजाईन और नाफरपुट ब्लॉक चौ. ब्रह्म प्रकाश इंजीनियरिंग कॉलेज में पढ़ने वाले विद्यार्थी भी ले सकेंगे।

AUG 25, 2020

Mathrubhumi

B.F.Tech programme at Netaji Subhas University of Technology;

Aug 25, 2020, 01:54 PM IST

NOV 25, 2020

Mathrubhumi

After the expansion of NSUT, many students will get their dreams, work will be done with Rs 202 crores

By Tanishka Ghai - November 25, 2020

SEP 01, 2020

Hindustan Times

Delhi govt announces two new campuses of Netaji Subhas University of Technology

DELHI | Updated: Sep 01, 2020, 23:18 IST



SEP 01, 2020

Netaji Subhas University of Technology to get two new campuses: Sisodia

ANI | Updated: Sep 01, 2020 23:24 IST

JUL 28, 2020

AGRICULTURE

THE HINDU

Engineering students lay the groundwork for sustainable agriculture



Nahla Nainar

NEW DELHI, JULY 28, 2020 17:15 IST
UPDATED: JULY 29, 2020 13:13 IST



Project Aahar team of NSUT students with farmer Ramlal in Goyla Dairy, Delhi. Photo: Special Arrangement/THE HINDU

Farmers in the outer suburbs of Delhi are experimenting with new growing methods through Project Aahar, run by students from Netaji Subhash University of Technology in Dwarka

SEP 01, 2020

United News of India
India's Multi Lingual News Agency

Delhi Govt announces 2 new campuses of NSUT



File Photo

New Delhi, Sep 1 (UNI) The Delhi Government has announced two new campuses of Netaji Subhas University of Technology (NSUT) by integrating two campuses in it registered under DTTE ie Ch Brahm Prakash Government Engineering College, Jaffarpur, (CBPGECJ), and Ambedkar Institute of Advanced Communication, Technology, Research (AIAC&R), Geeta Colony.

SEP 10, 2020

ZEEBUSINESS
हिंदी

दिल्ली में बढ़ेंगी इंजीनियरिंग की सीटें, सरकार ने लिया बड़ा फैसला

दिल्ली सरकार ने नेताजी सुभाष यूनिवर्सिटी ऑफ टेक्नोलॉजी (NSUT) में दो नए कॉलेजों के कैम्पस को जोड़ने का फैसला लिया है। चौधरी ब्रह्म प्रकाश राजकीय इंजीनियरिंग कॉलेज (जाफरपुर) और अंबेडकर इंस्टीट्यूट ऑफ एडवांस्ड कम्युनिकेशन टेक्नोलॉजी एंड रिसर्च (गीता कॉलोनी) को एनएसयूटी से जोड़ा जाएगा।

AUG 11, 2020

DATAQUEST

AICTE Invites Applications from Engineers for Free Online Course on Embedded System Design, to be conducted by Prof. Dhananjay V Gadre of Netaji Subhas University of Technology, and Prof Badri Subudhi from IIT Jammu.

AICTE in collaboration with NPTEL India has launched a free certificate online course on embedded systems for undergraduate engineers

AICTE, Texas Instruments and NPTEL India have invited applications from undergraduate engineering students for a massive open online course (MOOC) on Embedded System Design using MSP430. The course couple with practical hardware designing course is available on the Government of India's Swayam platform and is offered by NPTEL. Registered and selected participants will also get to work on free MSP430 MCU Lunchbox kit shipped by Texas Instruments to students' colleges while attending the course.

The 12-week course will be conducted by Prof. Dhananjay V Gadre of Netaji Subhas University of Technology, and Prof Badri Subudhi from IIT Jammu. Upon successfully completing the course and taking the required examinations by paying Rs 1000, students stand a chance to get a certificate from IIT Madras, NPTEL, AICTE, and TI.

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