

Newsletter

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THE NORTHCAP UNIVERSITY

NCU Activities

The NorthCap University once again Ranked No.1 Top Emerging University in India



The NorthCap University has been ranked No.1 among Top Emerging Universities in India, in a survey by Higher Education Review, Bangalore in May 2016. The University has reached this pole position successively for two years in a row. It has been also been placed among Top 10 Universities for Academic Excellence, all India.

NCU gets NAAC Accreditation



A six-member National Assessment and Accreditation Council (NAAC) Peer team visited The NorthCap University, Gurgaon for assessment and accreditation of the University. The University had recently volunteered for NAAC accreditation on becoming eligible for it, i.e. on completion of 5 years as a university with two batches passing out. The visit by the NAAC peer team is significant in the light of the recent good ranking of the University under the National Institutional Ranking Framework (NIRF) issued by Ministry of Human Resource Development, Govt of India, wherein NCU has been ranked as the top and only private university in Haryana and Delhi/NCR to feature in the list. The University has undergone National Board of Accreditation (NBA) earlier for many of its courses and also has earned the Premier University status from Accreditation Services for International Colleges (ASIC), UK.

The NAAC team visited the University from 9-11 May 2016 and inspected the various aspects of the University relating to admission process, research facilities and publications, academic and extracurricular activities, infrastructure facilities, administration, library, students and faculty achievements, medical facilities etc. As of now only 255

University Rankings

- Ranked No. 8 in AAA category All India, for Outstanding Private Multidisciplinary Universities in the survey conducted by Careers360.
- Ranked No. 12 amongst Top Private Technical Universities All India by The Week Best Universities Survey 2016.
- Ranked No. 32 amongst Top Private Engineering Institutes by Times Engineering Survey 2016.



universities in the country have been accredited by NAAC out of over 750 universities. We have since received NAAC accreditation which is another mark of distinction for NCU.

Agreement with Indian Meteorological Department (IMD)



The NorthCap University signed a Letter of Agreement (LOA) with Indian Meteorological Department, Ministry of Earth Sciences, Govt. of India for establishment of an Automatic Weather Station (AWS) and scientific cooperation. Under the agreement, the AWS will be established at the NCU campus. Considering the increased demand of weather data & products and improving weather and climate services, it was felt that both the organizations would mutually benefit in the field of air quality monitoring and

research. The meteorological and air quality data will be available for academic and research purposes and to help the public in general awareness. Indian Meteorological Department will provide necessary meteorological instruments and technical maintenance and guidance for the AWS. The agreement has been resulted by the initiatives and efforts taken by Dr Pramila Goyal, Professor Emeritus, Dept of Civil & Environmental Engineering and Applied Sciences, NCU.

NCU's OSA Student Chapter received grant



An OSA grant of Rs. 15,647 has been awarded to The NorthCap University OSA Student Chapter on 7 March 2016 for its functioning and carrying out various activities.

Other materials such as posters and banners for promotional events have also been received. The Chapter looks forward to performing student activities both on and off campus under the guidance of Dr Hukum Singh, Chapter Advisor and Associate Professor, Department of Applied Sciences. [APS2016O008]

NCU is Committed University for QEEE

Towards its continuous commitment for quality enhancement activities, The NorthCap University has been participating in the Indian Institute of Technology, Madras QEEE programme. The Committee for Reforms in Technical Education under the chairmanship of Prof. Ashok Jhunjhunwala, IIT Madras, has been constituted by the Ministry of Human Resources and

Development (MHRD) with a mandate to bring about comprehensive reforms in technical education.

This programme provides live classes, course packs, live labs on engineering courses like Processor design, Digital Electronics, Electromagnetic Theory, Signals and Systems, Control system etc. and bridges the gap between the initial skills of individuals and what they need to enter and succeed in their career-path employment. The NCU has run several courses under this programme for its students in the last one year.

Special lecture on Air Pollution



Dr Pramila Goyal, Distinguished Professor Emeritus delivered a lecture on 'Status of Air Pollution in India' on 19 May 2016. As per 2008-13 study by WHO for PM2.5 data, out of world top 100 polluted cities, 31 are in India. Delhi, one of the most polluted cities of the world, is facing the impact of increasing number of premature deaths due to air pollution related diseases. A major cause of this is high rate of urbanization and increasing number of vehicles on roads.

Dr Goyal also discussed a few serious events related to air pollution in India, like Bhopal Gas tragedy of 1984 due to the leakage of poisonous gas Methyl Iso Cyanide; study of air pollution during the night of Deepawali in 2015, which revealed that concentrations of PM2.5 and PM10 exceed the prescribed limits (NAAQS) by 5-6 times at all locations in Delhi; study of air pollution during the government's implemented scheme of 'odd-even' in Delhi for 15 days in January 2016. In conclusion she said that emphasis should be laid on reducing emissions at source itself by going for alternative fuels and technology.

Interaction with Founder of 91springboard



Mr Pranay Gupta, a successful entrepreneur and co-founder of the incubation centre – 91springboard visited the University on 13 May 2016 and interacted with Pro Vice-Chancellor, Brig SK Sharma (Retd),

Heads of Departments and some faculty members. Mr Gupta shared his exciting entrepreneurship journey after IITD, IIMA to Lehman Brothers. During the interactive session he addressed a very wide range of queries pertaining to creating an E-Cell, facilitating ideation, providing mentoring support to budding entrepreneurs, getting associated with ISBA, funding aspects, role of an incubation manager and support from 91springboard. He would also be addressing the NCU students on this subject after the summer vacations. Director SOET, Prof. Ravindra Ojha would be facilitating further engagement of NCU with 91springboard.

Students on Dean's List receive Scholarships

The students on the Dean's List received scholarship awards in a well-attended ceremony on 23 May 2016. The Pro-Vice Chancellor, Brig SK Sharma (Retd) distributed the certificates to the students. 66 out of 84 students were present at the event to receive the awards in person. Brig. Sharma congratulated the students and wished them to continue and achieve better results in the coming semesters.

The 'Dean's List of Students' is prepared each semester to recognise out performers. Any student who achieves a CGPA of 9.5 and above or has secured the top position in the batch is featured in it.

Congratulations to the candidates on their achievement!



Staff Development Programme on Work-Life Balance

A Staff Development Programme on 'Work-Life Balance' was conducted by Dr Shweta Sharma, Clinical Psychologist, Columbia Asia Hospital on 4 May 2016, for admin and technical staff of the University. The objective of the workshop was to equip the employees with proper prioritizing between work i.e. career and ambition vis-a-vis lifestyle i.e. health, pleasure, leisure, family and spiritual development. During the enlightening and interactive session intertwined with examples, stories, real life experiences, case-studies, exercises and thought experiments, the participants were made aware and equipped about the general stressors and hassles that they face in their day to day lives. They were also trained on the techniques to cope with such stresses and issues. Over 100 participants attended the motivational workshop and learnt practical tools

to build better balance between work and lifestyle. The workshop was organized and coordinated by Ms Nikita Kapoor, Psychologist-cum-Counsellor, NCU.



Yukti organizes Earth Day Celebrations



Yukti, the social service cell at the University aims at bringing the faculty members and students together to make life better for the negligent and suffered, regardless of caste, color, religion or status. In continuation of its previous social activities, Yukti Club organized an event 'Earth Day Celebrations' at Gurukul Kalpataru, Caterpuri, Gurgaon on 2 May 2016. The Gurukul is run by a non-profit organization, Arvindam Foundation and focuses on skill building of students of lower strata of the society besides helping them cope with their studies at schools.

Yukti organized the event to promote the importance of environment among young students and create awareness among them regarding our planet and how they can contribute in saving it. The volunteers screened a documentary and conducted some fun activities and a drawing competition. To encourage the students, they were awarded with gifts and goodies. The event ended with a quiz and everybody pledged to keep the environment clean.

University bids Farewell to its final year students

The University organized a farewell ceremony for the final year students of Engineering, Management and Law on 11 May 2016. The adieu was full of excitement of entering into a new, matured and professional world, but



was also mixed with the pain of departing from the alma mater. The event was graced by the presence of the Pro-Chancellor, Prof. Prem Vrat; Pro Vice-Chancellor, Brig SK Sharma (Retd); Registrar, Col Bikram Mohanty (Retd); Heads of Departments and faculty members.

Student representatives from different Departments and Schools revived some of the old memories, with mixed emotions. The outgoing students also expressed their feelings for their Alma Mater and shared some of their fondest memories. The event witnessed wonderful dance and song performances by the students who brought the evening live by their acts. Dressed to the nines, the students were all in high spirits as they clicked away on their cameras, capturing moments of joy, laughter and smiles and wanted to make the best of the last day as students at the University. The outgoing students were given different titles by the pre-final year students as they were called on stage one by one and given a memento.



News from the School of Engineering and Technology

Department of EECE

Departmental Activities

- ❑ The Department invited Ms Bijal Ganatra, Regional Talent Acquisition Lead, Reliance Communication Ltd. for hiring of our BTech ECE and MBA students. The organization conducted an aptitude test followed by personal interview on 21 April and 10 May 2016. The organization was pleased with the quality and technical knowledge of our BTech ECE students and offered placement to seven students. Reliance Group's flagship company, Reliance Communications is India's foremost and truly integrated telecommunications service provider. The interaction with the company and subsequent follow up was done by Mr Saurabh Sachdeva. [ECE2016II001]
- ❑ A mock test was organized by the Department on 29 April 2016 for the 6th sem ECE and EEE students with an objective to prepare them for the upcoming placement drives. Around 180 students appeared for the mock test. The test covered questions on aptitude, logical reasoning, verbal reasoning and C, C++ programming. The test was coordinated by Mr Saurabh Sachdeva.



Students during Mock Test

- ❑ The Department organized in-house summer training for ECE BTech 1st year students on 25 and 26 May 2016. This is a unique initiative by the Department to provide hands-on learning experience, starting right from first year. The objective of the training was to cover basic electronic components, use of various electronic equipment and measurement devices. After the training, students were allocated projects for their summer vacation as a part of the summer training. The event was coordinated by Mr Mandeep Singh and Mr Naman Joshi.



In House Summer Training of ECE BTech 1st year students

- An IGATE test was organized by the Department on 25 May 2016 for students of 2nd, 4th and 6th sem ECE, 6th sem EEE and 4th sem EE. The objective behind organizing the IGATE test was to prepare students for placements, PSUs, GRE, GMAT, GATE and other competitive exams. Around 410 students appeared for the test. The test covered questions on aptitude, logical reasoning, verbal reasoning, technical and general knowledge. The test was coordinated by Ms Geetu Lalit and Ms Deepti Chahar with support of EECE and CSE technical staff.

Faculty Activities

- Dr Mayank Srivastava chaired a session on 'Image Processing and Applications' at IEEE International Conference on Computing, Communication and Automation –2016 (ICCCA- 2016), held at Galgotias University, Greater Noida on 30 April 2016. The conference focused on latest trends in image processing.

Dr Neeraj Kr Shukla participated in the 'Workshop on Cadence, Synopsys and Mentor Graphics' held at BITS Pilani K K Birla, Goa Campus from 16-20 May 2016. The objective of the workshop was to train beginners and to crack technical and design issues for current researchers using EDA tools such as Mentor Graphics, Synopsys and Cadence. [ECE2016WA006]

Department of CSE and IT

Departmental Activities

Guest Lectures

- Working in the area of cyber security, the SOCER society of the Department has taken the Data Security Council of India (DSCI) Membership in April 2016. DSCI was set up in 2008 by NASSCOM and has around 500 members across different sectors. DSCI through its Corporate Membership program provides topical, validated, globally acknowledged and action oriented services to its member companies to promote data protection in the various industry verticles and build trustworthiness of Indian companies at the global arena.
- The Department took an initiative for FOSS (Free and Open Source Software) training by IIT Bombay through Spoken Tutorials project for 2nd, 4th and 6th semester students in the areas of FOCP, OOPS II, DBMS and Software Engineering. 220 out of 225 enrolled students of 2nd sem cleared FOCP, 206 out of 210 enrolled students of 4th sem cleared OOPS II and DBMS, and 105 out of 108 enrolled students of 6th sem cleared Software Engineering. The qualifying students received certificates from IIT Bombay. The event was coordinated by Ms Mehak Khurana and Ms Garima Sharma.

IIIC Cell Activities

- Mr Yogesh Gupta, a Cyber Security expert from Federal Govt. of USA visited the SOCER group working on cyber security and discussed about various latest issues and opportunities growing in this domain.
- With the efforts of IIIC Cell for internships, two students got selected in Pyramid Cyber Security and Forensic Pvt Ltd., two students got

selected in Hughes Systique Software, two students got opportunity to work with DRDO and three students with Deity.

Faculty Activities

- Dr Vijendra Singh has been appointed as an Editorial Board Member in International Journal of Information and Decision Sciences, Inderscience, UK.

Department of Civil and Environmental Engineering

Alumni Interaction

- Mr Deepanshu Yadav (2011-15 batch) interacted with CEE students of first year on 27 April 2016 to guide them on various options they can pursue after graduation. He highlighted the scope of MTech, MS, PSUs, MBA and business, stressing on the major differences between each one of them. He suggested the students to plan towards the domains of their interest and start working towards it. He shared his experiences regarding procedures to apply for admissions in foreign universities for pursuing higher studies. Students were highly enthusiastic and keenly participated in the interaction. [CEE2016O008]



Mr Deepanshu Yadav with students of CEE

Mentor- Mentee Interaction

The Department organized mentor-mentee meeting with Prof. PK Swamee on 9 May 2016. Faculty members of the Department discussed various aspects of teaching and the progress in their individual research works with the mentor who provided various inputs and feedback for the upliftment of the Department and improving the quality of work culture and research activities at individual level. [CEE2016O009]

Faculty Activity

Mr Lokesh Choudhary and Mr Dhruv Sood, Asst Professors attended the 3rd Edition of World of Concrete, India organized jointly by Informa Exhibitions US and Inter Ads Exhibitions Pvt. Ltd. from 18-20 May 2016 at Pragati Maidan, New Delhi. The event witnessed participation of more than 3,500 professionals from India and overseas and included showcase of various innovative technologies and sustainable construction materials. Some of the companies at the event showed interest in being invited to the university for seminars/ guest lectures on the innovative technologies used in the construction field.

Student Placement

The Department would like to congratulate Mr Samarjit Chauhan (BTech final year) on his placement at M/s Jainco Pvt Limited.

Department of Mechanical Engineering

Industrial Interaction

The Department organized an industrial visit to Multitex Filtration Engineers Ltd. (MFEL), Greater Noida for BTech (Mechanical) 4th and 6th semester students on 22 April 2016. The visit was organized to give the students a practical exposure of manufacturing of heat exchangers, filtration & separation equipments, welding procedures etc. The students interacted with the Plant Head and their queries were aptly responded to by Mr AK Tiwari, Sr General Manager, MFEL. The visit was coordinated by Mr Anuj Kumar Jain and Mr Deepak Monga. [MED2016V001]



NCU students and Faculty at MFEL, Greater Noida

Department of Applied Sciences

Guest Lectures



Lecture on Information optics by Prof. Kehar Singh, in progress

- A series of lectures on 'Information Optics' by Prof. Kehar Singh, SS Bhatnagar Awardee and Honorary Distinguished Research Professor at NCU, was organized by the Department of Applied Sciences. The first lecture was held on 21 April 2016 and the second in continuation was held on 5 May 2016. The topic of Information Optics is a part of the curriculum of first year CSE students. The lectures were attended by 50 CSE students of 1st year and faculty members teaching Physics.

During the first session, Prof. Singh emphasized that the 21st century is the century of optics in which optical information technology is going to play a major role. He compared the optical information technology to electronic information technology and optical computers to electronic computers. He explained the fundamental concepts of optical information technology in which Optical Fourier Transform (OFT) of the object domain is obtained

using optics into the Spatial Fourier Frequency Domain and vice-versa.

During the second lecture, Prof. Kehar Singh talked about Liquid Crystal Spatial Light Modulator (SLM) and explained about optically addressable SLM using photo refractive crystals and electrically addressable E-SLM using liquid crystals. He explained the working principle of NLC – SLM using many intricate diagrams. Many applications of E-SLM were also mentioned in the lecture. [APS2016G002, APS2016G003]

- Dr Shankar Aggarwal, Senior Scientist, National Physical Laboratory, Delhi was invited to deliver an expert talk on 'Air-pollution monitoring'. The session was attended by faculty members of the Department and students. During the lecture, Dr Aggarwal explained many state-of-the-art equipment used to monitor and measure air quality and air pollution. Later, Prof. Pramila Goyal, Prof. Amitava Sengupta and Dr Sangeet Srivastava discussed with Dr Aggarwal to explore the possibility of conducting air quality monitoring and modelling at NCU. [APS2016G004]



Dr Shankar Aggarwal addressing students

Industrial Visit

An industrial visit to ROOP Automotives, Sohna was organized by the Department on 7 May 2016 for Mechanical and ECE students. The organization is one of the largest OEM Suppliers of auto components and has a strong presence in Tier-II segment of the industry.

The visit started with an orientation conducted by Head HR followed by the visit to the Plant 1 and 2. The students visited the manufacturing division of the company in which various machining processes like turning, boring, knurling, thread cutting etc. were explained. The students visited the assembly department in which the steering assembly was explained to the students. A talk from Director ROOP Automotives Ltd., Mr Gaurav Jain was well received by the students.

The visit was very useful as students were able to link the theoretical concepts with the practical techniques. The organization has also agreed to provide industrial training and placement opportunities for students. The visit was coordinated by Dr Sunanda Vashishth (APS Dept.) and Mr Anmol Bhatia (ME Dept.). [APS2016V002]

Summer internship

Ms Pooja Sharma (15MSM014) has been selected for summer internship at IIT Roorkee. Her training will be under Dr (Prof.) SP Yadav, Department of Mathematics. The internship was enabled by Dr Sandeep Mogha.

News from the School of Management

Faculty Activities

Ms Parul Munjal attended Faculty Development Programme on 'SPSS and Research Methods' on 5-6 May 2016 at FORE School of Management, New Delhi. [SOM2016WA002]

Ms Munjal completed online course 'The Factors that influence the Effectiveness of Boards and the Governance Process' on Coursera offered by The State University of New York. [SOM2016O001]

News from the School of Law

Law students visit Juvenile Home

With an aim to provide a first-hand opportunity to the students of Criminal Law and Criminal Justice Administration and to have an understanding of juvenile justice system and rehabilitation at juvenile homes, the School of Law organized a visit to an Observation Home in New Delhi on 21 April 2016. 61 students of School of Law visited the home which is run by the Prayas Institute of Juvenile Justice under the MoU signed with the Department of Women & Child Development, New Delhi. The observation home is a short-stay home for juveniles in conflict with law, who are custodial children and their inquiry is conducted by the Juvenile Justice Board located in the same premises. An orientation programme was conducted by the Supervisor of the Home followed by an interaction with the inmates and the instructors providing various training to the children of various age groups. The students were accompanied by two faculty members of School of Law, Ms Archana Sarma and Ms Isha Khurana.



Visit of Law students to Observation Home

Faculty Activities

- ❑ Dr Arvind P Bhanu, Associate Professor, published a review article of the book, 'Crime and Justice in India' by N. Prabha Unnithan (Sage Publications), in International Criminal Justice Review, Vol. 26, No. 1, 58–59 (2016).
- ❑ Ms Archana Sarma, Assistant Professor, was invited to attend the Joint PhD Workshop under Indo-Norwegian Cooperation Program in Law between National Law University Delhi and Faculty of Law, Norway, organized at NLUJ on 19–22 May 2016. (SOL2016A001)

Corrigendum:

In the last issue of Newsletter (April 2016), the following news was inadvertently published under Student Activities in place of Faculty Activities.

Faculty Activity

Two doctoral dissertations of Mr Subhash Kumar and Mr Manish Bhardwaj have been submitted to Shri Venkateshwara University, Gajraula (Uttar Pradesh) on 9 April 2016 under the supervision of Dr Arvind P Bhanu, Associate Professor, SOL.

News from the School of Professional Attachment (SPA)

May is the month of closing of academic session and during this period of bidding adieu to their alma mater, almost all students of final year got placement offers through efforts of the University placement cell, SPA. Some of them have been fortunate to bag more than one offer.

Placements

- ❑ Officials of Ducat visited the University on 11 May 2016 for an internship drive and extended offers to seven students.
- ❑ Indigo Airlines visited the University on 19 May 2016 for a placement drive for Mechanical and Electronics Engineering students. The officials were impressed with the discipline and state of art infrastructure of the university. They later invited three students on 24 May 2016 for the final interview, the result of which is awaited.
- ❑ On 26 May 2016, Mr Neeraj Kumar, Director Deloitte visited the University to address our pre-final students. He was impressed to witness the participation of our students during his session.
- ❑ Feeder bus, a growing startup has offered internships to four students in the digital marketing vertical of their firm.
- ❑ ICAT, a reputed organization for core engineering, visited the University for an on-campus placement drive on 15 May 2016. The results shall be shortly released.



Mr Hemant Boora, Human Resource Head, ICAT being welcomed by Mr BK Gupta

Other Activities

- A group of students of Class 11 and teachers from Salwan Public School, Gurgaon visited the University on 27 May 2016 to gain an insight about the courses offered by the University. They were given a brief presentation by different departments followed by a tour of labs and departments.



Brig. SK Sharma (Retd) addressing students of Salwan Public School

News from the Library

Mr Deepak Sharma attended LIPS 2016



Mr Deepak Sharma, Assistant Librarian attended two-day International Library and Information Professional Summit (LIPS) 2016 on 'From Ownership to Access: Leveraging the Digital Paradigm', held at Ambedkar University, New Delhi on 19-20 May 2016. The summit was attended by over 200 participants from all over the world and inaugurated by Prof. Shyam B Menon, Vice-Chancellor, Ambedkar University, New Delhi. Dr Jagdish Arora, Director,

INFLIBNET gave the inaugural address on innovative practices in libraries. Mr Deepak Sharma proposed to take up with INFLIB NET to provide free access to online resources to private universities also. In addition, it was decided to form a consortium of online resources for private universities to take up case of providing resources on subsidized rates to private universities, as applicable to central and state universities.

Research Papers Published

Book Chapters

International

- **Sushmita Biswal Waraich** (2016) 'Beyond Philanthropy' in Corporate Social Responsibility: Emerging Issues and Challenges, Chapter1, pp. 7 -19, Cambridge University Press, ISBN-978-93-85386-14-5, **SOM2016BC001**.

Journals

International

- **Sandeep Kumar Mogha** (2016) 'Application of Differential Evolution for Data Envelopment Analysis', International Journal of Data Science, Vol. 1, No. 3, pp. 247-258, **APS2016J012**.
- **Deepika, Hukum Singh** and Narendra Sahai Saxena (2016) 'Stability and Percolation Threshold of Ge42-xPbxSe58 ($9 \leq x \leq 20$) Glasses', Transactions of the Indian Ceramic Society, Vol. 75, No. 1, pp. 20-24, **APS2016J013**.
- Anju Bala, Kishan Singh Rawat, **Anil Kumar Misra** and **Amit Srivastava** (2015) 'Assessment and Validation of Evapotranspiration using SEBAL Algorithm and Lysimeter Data of IARI Agricultural Farm, India', GeoCarto International, Vol. 31, No. 7, pp. 739-764, **CEE2016J001**.
- Geetha Varma V and **Anil Kumar Misra** (2015) 'Equilibrium and Kinetic Studies on the Adsorption of Copper onto Paddy Straw Powder', Desalination and Water Treatment, Vol. 57, No. 28, pp. 13081-13090, **CEE2016J002**.
- **Anil Kumar Misra**, Nikita Gupta, Anupriya Gupta, Ankur Shivhare and Manav Wadhwa (2016) 'Designing and Testing of a Portable Filter for Groundwater Defluoridation and Desalination, Equipped with Non-Woven Geotextiles', Desalination and Water Treatment, Vol. 57, No. 23, pp. 10593-10603, **CEE2016J003**.
- Gaurav Kumar and **Megha Kalra** (2016) 'Review Paper on Seismic Analysis of RCC Frame Structures with Floating Columns', International Journal of Advanced Technology in engineering and science, Vol. 4, No. 1, pp. 125-128, **CEE2016J004**.
- **Payal Khurana** (2016) 'Angst and Rebellion in Black American Literature', International Journal of Multilingual and Multifaceted Studies, Vol. III, No. IV, pp. 1-4, **CLL2016J001**.
- **Payal Khurana** (2016) 'The Western Influence on Post-Colonial Indian Women in Anita Nair's 'Mistress'', Asian Journal of Multidisciplinary Studies, Vol. 4, No. 6, pp. 72-74, **CLL2016J002**.
- **Payal Khurana** (2016) 'Dilemmas in Life of Women in Contemporary Indian Society', International Journal of Multifaceted and Multilingual Studies, Vol. III, No. V, pp. 1-7, **CLL2016J003**.
- **Jagdeep Kaur** and Pradeep Tomar (2016) 'A Retrospection of Software Component Selection Techniques Using Computational Intelligence Techniques', International Journal of Latest Trends in Engineering and Technology, Vol.6, No.4, pp.489-495, **CSE2016J009**.
- **Vijender Singh** (2016) 'Application of Artificial Neural Networks for Predicting Generated Wind Power', International Journal of Advanced Computer Science and Applications, Vol. 7, No. 3, pp. 250-253, **CSE2016J010**.
- **Anuradha and Gaurav Gupta** (2015) 'Fuzzy Decision Tree Construction in Crisp Scenario Through Fuzzified Trapezoidal Membership Function', Internetworking Indonesia, Vol. 7, No. 2, pp. 21-28, **CSE2016J011**.

- ❑ Surbhi Dewan and **Sumanlata Gautam** (2016) 'Language Specific Speech Feature Variation', International Journal on Computer Science and Engineering, Vol.8, No.4, pp. 128-132, **CSE2016J012**.
 - ❑ Surbhi Dewan and **Sumanlata Gautam** (2015) 'How Assistive Technologies can help Autistic Children: A Survey', International Journal of Innovation & Advancement in Computer Science, Vol. 4, No. 9, pp. 16-22, **CSE2016J013**.
 - ❑ Priyanka Rastogi and **Vijendra Singh** (2016) 'Systematic Evaluation of Social Recommendation: Systems: Challenges and Future', International Journal of Advanced Computer Science and Applications, Vol. 7, No. 4, pp. 158-166, **CSE2016J014**.
 - ❑ **A Charan Kumari** and K Srinivas (2016) 'Hyper-heuristic approach for multi-objective software module clustering', The Journal of Systems and Software, Vol. 117, pp. 384-401, **CSE2016J015**.
 - ❑ **A Charan Kumari** and K Srinivas (2016) 'Comparing the Performance of Quantum-inspired Evolutionary Algorithms for the Solution of Software Requirements Selection Problem', Information and Software Technology, Vol. 76, pp. 31-64, **CSE2016J016**.
 - ❑ **Nitin Garg, Mona Aggarwal, Akansha Solanki and Swaran Ahuja** (2016) 'Data Communication in Linear Wireless Sensor Networks via Unmanned Aerial Vehicles using FSO Communication', International Journal of Innovations in Engineering and Management, Vol. 5, No. 1, pp. 1-6, **ECE2016J004**.
 - ❑ **Naresh Kumari, Amar Nath Jha and Nitin Malik** (2016) 'Development of Wind Power Generation Model with DFIG for Varying Wind Speed and Frequency Control for Wind Diesel Power Plant', International Journal of Engineering and Technology, Vol. 8, No. 2, pp. 596-603, **ECE2016J005**.
 - ❑ **Pradeep Rohilla and Abhishek Pratap Singh** (2016) 'To Control Nonlinear Pneumatic System using Fuzzy Logic Controller', International Journal of Engineering Research & Technology, Vol. 5, No. 4, pp. 491-494, **MED2016J011**.
 - ❑ **Pradeep Rohilla, Jitender, Amit and Akshay Dhingra** (2016) 'Design and Analysis of Controller for Anti lock Braking System in Matlab/Simulation', International Journal of Engineering Research & Technology, Vol. 5, No. 4, pp. 583-589, **MED2016J012**.
 - ❑ Tomoyuki Naito, Takafumi Yoshida, Hidehiko Mochizuki, Hiroyuki Fujishiro, **Ritwik Basu** and Jerzy A Szpunar (2016) 'Vortex Pinning Properties of Dense Ti-doped MgB₂ Bulks Sintered at Different Temperatures', IEEE Transactions on Applied Superconductivity, Vol. 26, No. 3, pp. 1-5, **MED2016J013**.
 - ❑ **Pradeep Rohilla, Shubham Mittal, Vikas Hooda and Abhishek Pratap Singh** (2016) 'Improving Productivity by Implementing Lean Manufacturing', International Journal of Engineering Research and General Science, Vol. 4, No. 3, pp. 29-36, **MED2016J014**.
 - ❑ **Ashwini Sharma, Dixit Garg and Ashish Agarwal** (2016) 'Identification of Influential Quality Management Variables Using ISM Approach', International Journal Advanced Operations Management, Vol. 8, No. 1, pp. 38-63, **MED2016J015**.
 - ❑ Gadadhar Sahoo, IS Wani, SB Kumar, Balbir Singh, Atul Saxena and **Ritwik Basu** (2015) 'Effect of Ni on the Formability and Texture of Hot Rolled Weathering Steel', Journal of Metals, Materials and Minerals, Vol. 25, No. 2, pp. 23-29, **MED2016J016**.
 - ❑ **K Mathiyazhagan, A Noorul Haq and Varun Baxi** (2016) 'Analysing the Barriers for the Adoption of Green Supply Chain Management – The Indian Plastic Industry Perspective', International Journal of Business Performance and Supply Chain Modelling, Vol. 8, No. 1, pp. 46-65, **MED2016J017**.
- National**
- ❑ **Nitin Garg, Mona Aggarwal and Nikita Ishpuniani** (2016) 'Study of Implementation of VANET Network on Intervehicular Communication System', Scientific Technical Medical Journal of Network Security, Vol. 4, No. 1, pp. 7-13, **ECE2016J003**.
 - ❑ **Archana Mehra and Dhani Ram Agarwal** (2016) 'Review of Microfinance schemes in Haryana with focus on Mewat', Journal of Technology Management for Growing Economies, Vol. 7, No. 1, pp. 27-54, **SOM2016J005**.
- Conference Proceedings**
- International**
- ❑ Anu Batra, Usha Batra and **Vijendra Singh** (2016) 'A Review to Predictive Methodology to Diagnose Chronic Kidney Disease', IEEE 2016 3rd International Conference on 'Computing for Sustainable Global Development', pp. 3735-3738, **CSE2016P006**.
 - ❑ Surbhi Dewan and **Sumanlata Gautam** (2016) 'Gender Specific Speech Feature Variation in Hindi and English Language', 3rd International Conference on Computing for Sustainable Global Development, pp. 7456-7458, **CSE2016P007**.
 - ❑ **Sumanlata Gautam and Latika Singh** (2016) 'A Comparative Study: Spectral Parameter in Speech of Intellectually Disabled and Normal Population', 3rd International Conference on Computing for Sustainable Global Development, pp. 4658-4662, **CSE2016P008**.
 - ❑ Kriti Chaudhary and **Divya Sharma** (2016) 'Body Area Networks: A Survey', 10th INDIACOM-2016; IEEE Conference, pp. 4845-4849, **CSE2016P009**.
 - ❑ Tanvi Nara, **Naman Joshi and Swaran Ahuja** (2016) 'Performance of Free-Space Optical MIMO system in S-Distributed Turbulence', International Conference on Computing, Communication and Automation, pp. 1-5, **ECE2016P005**.
- Conference Presentation**
- National**
- ❑ **Jiveta Chaudhary** (2016) 'Organizational Drivers of Innovative Leadership', Mantra for 21st Century Managers: Initiate, Innovate and Integrate, Delhi Institute of Advanced Studies, New Delhi, **SOM2016C002**.

- **Jiveta Chaudhary** (2016) 'Modelling the Soft Enablers of Successful Lean Transformations: An ISM Approach', National Conference on Changing Organizations through Strategic, Technological, Structural and Behavioural Interventions, University School of Management Studies, Guru Gobind Singh Indraprastha University, New Delhi, **SOM2016C003**.

Student Activities

- Pranav Jain, student of BTech (CSE) 5th sem has been selected for Google Applied CS program which is a program by Google to promote and teach CS - Android and Java in campuses. They have selected students from different campuses after a round of video and written interviews.
- Palash Chhabra and Mansi Kamboj, students of BTech (IT) final year won the first prize in Skyfi Labs Project Competition 2016, a national level competition for search of India's Best Engineering Final Year Project. About 500 projects across the nation from different streams of engineering participated in this competition. The project developed by Palash and Mansi, 'Shikshak - A Tutor System for the Blind' is an audio, visual and tactile device capable of facilitating Braille tutoring among the blind. The project guides for the project were Ms Jyotika Pruthi & Ms Mehak Khurana, Dept of CSE&IT.
The project had earlier won the Best Project Award for Social Cause at GD Goenka Project Exhibition.



- Mr Yashasvi and Mr Sourabh Gupta have developed 'NCU-Mcare: Medical HealthCare System' for the medical professionals of NCU under the supervision of Dr A Charan Kumari. The main purpose of the system is to computerize the existing manual system and to develop a user-friendly system that can assist the doctors in their tasks including maintenance of patient records, stock control and report generation.
- Mehak Chawla, MTech VLSI student got selected for six month internship at Cadence Design System (India) Pvt Ltd, Noida which is an American electronic design automation (EDA) software and engineering services company. This internship was facilitated by Mr Pankaj Rakheja.
- Shubham Dawra, Tushar Khatri and Aishwarya Basotia of BTech ECE 6th sem were selected for 'Verification of Electronic Design and Systems using System Verilog' training program organized by the Mentor Graphics for this year. This internship was facilitated by Mr Pankaj Rakheja.

- Ms Surbhi Dewan, MTech (CSE) student under the guidance of Ms Sumanlata Gautam has developed an educational Android application in Hindi and English language for improving the communication skills of Indian children suffering from cognitive disabilities like autism, dyslexia, aphasia and specific language impairment. The application has been matured at three different levels depending upon the severity of the child. It was tested with a group of special kids and has obtained excellent positive results.



The following industry related BTech final year projects (Dept of Mechanical Engineering) have been successfully completed by the students:

1. Design and Fabrication of Crop Cutting Machine' by Mohit Vij (12MEU056), Siddharth Sood (12MEU084), Varun Gulia (12MEU089) and Yatharth Gupta (12MEU098) under supervision of Mr Abhishek Pratap Singh and Mr Pardeep Rohilla. The project is associated with **Gian's Meditronics**, Bawana, Delhi. [MED2016O012]
2. 'Design, Fabrication and Analysis of the cooling of a Desert Cooler' by Darpan Vashishtha (12MEU027), Chaitanya Bhatia (12MEU025) and Manveer Singh (12MEU049) under supervision of Mr Abhishek Pratap Singh and Mr Pardeep Rohilla. The project is associated with **Sidharth Enterprises**, Faridabad. [MED2016O013]
3. Design & analysis of controller for Plastic Injection Moulding Machine' by Chaitanya Jhanji (12MEU026) under supervision of Mr Pardeep Rohilla and Mr Abhishek Pratap Singh. The project is associated with **Vishesh Technologies**, Gurgaon. [MED2016O014]
4. Design of Multilevel Height Adjusting Industrial Trolley: Using Ergonomic Approach' by Aman Kumar (12MEU011), Anshul Chanana (12MEU019), Anurag Bhakar (12MEU021) and Ashish Yadav (12MEU023) under supervision of Mr Deevash Sharma. The project is associated with **RICO Auto Industries**, Gurgaon. [MED2016O015]

Outreach Activities of Prof. Prem Vrat

Pro-Chancellor, Professor of Eminence and Chief Mentor



Prof. Prem Vrat
Pro-Chancellor,
Prof. of Eminence
and Chief Mentor

- ❑ Prof. Prem Vrat chaired the Academic Committee Meeting of Surajmal Memorial Educational Society at Maharaja Surajmal Institute of Technology (MSIT), New Delhi on 8 May 2016.
- ❑ Prof. Prem Vrat was invited as an Expert for chairing the Faculty Selection Committee Meeting at BML Munjal University, New Delhi on 14 May 2016.
- ❑ As a member of the Advisory Group of Expert on Upgradation of Technology and Leveraging 'Make in India' in Indian Railways, Prof. Prem Vrat visited Rail Wheel Factory (RWF), Bengaluru along with Dr VK Saraswat, Member Niti Ayog and Chairman Advisory Group of Expert Committee and his team on 16 May 2016.
- ❑ Prof. Prem Vrat was invited to attend the dinner hosted by the President of University of Petroleum and Energy, at The Taj, New Delhi on 21 May 2016, on the occasion of 'Decade of graduating students'.
- ❑ Prof. Prem Vrat attended the Audit Committee and Board Meeting of Air India Limited in the capacity of an Independent Director at Air India, New Delhi, on 23 May 2016.

Outreach Activities of Brig. SK Sharma (Retd.),

Pro-Vice Chancellor & Senior Professor



Brig. SK Sharma
Pro Vice-Chancellor and
Senior Professor

- ❑ Brig SK Sharma (Retd) attended the National Conference on 'Reforming & Rejuvenating Indian Higher Education – A Stakeholders' Perspective' organized by Education Promotion Society for India (EPSI) on 18 May 2016 at India Habitat Centre, New Delhi. The Conference was inaugurated by Hon'ble Minister of HRD, Smt. Smriti Zubin Irani, who spoke about the forthcoming release of the New Education Policy, the committee for which is headed by Sri TSR Subramanian, Ex-Chief Secretary, Govt. of India.
- ❑ Higher Education Review Magazine of May 2016 featured an article of our Pro-Vice Chancellor, Brig SK Sharma (Retd) titled, 'The NorthCap University: Tying Parallel Tracks of Education and Research'. The Higher Education Review also ranked NCU as No. 1 Emerging University All India and listed NCU amongst the Top 10 Universities of the country, for Academic Excellence.





Shab-E-Ruksat



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