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## Principal's Message

*"In Indian constitution the right of expression has been given an important place. Every men and women have different ideas, but until and unless these ideas get channel of expressions, these cannot be translated into the reality. Mass media has been growing very fast and students have to be exposed to these media in a manner which suits them in their own language. Newspaper like 'हंस VISION' is a platform for students for showcasing the talent and creativity. I wish the 'VISION' society, success in their attempt to connect all the students, societies and departments of Hansraj College."*

## Innovation Projects

2015-2016

The results for this edition of the Innovation Project Scheme were recently declared by the varsity. The vision of University of Delhi states that the desired goal must have some reasonably clear real world applications, to promote innovation among young minds by introducing the 'Innovation Project Scheme' in 2012 has been successful in grabbing the attention and interests of the students and faculty. The scheme is 'designed to enhance learning experience through student's participation. It inspires over 300 projects which then submitted by students and faculty of colleges around the university. They were to be conducted by team of 3 teachers and 10 students, being able to encourage and support hands-on research by college teachers and students.

Given a curriculum which was bounded by a discipline based syllabus and strict timetables for lectures, the teachers and students did not have the time, or the grants, to consider new ways of learning. The Innovation Project Scheme has proved to be an inevitable part of the University since 2012 providing a big platform to students to showcase their talents with monetary grants, an exposure like never before.

A project submitted by the faculty members and students of Hans Raj College, under the name of "Device for the Uniquely Aabled (DUA)" has made the cut, aiming towards "Helping the blind help themselves". The project aims at creating a device which would help the visually impaired ... continue to pg.7[1]

# "SOUVENIR ALACRITY 2K15"

Seniors welcomed Fresher's; Student union organized Alacrity '15 with DJ 'ACE AXE'

ALACRITY 2K15" held on 14th October in Hansraj College L.P area, the Hotspot of the college, left fresher's filled with a lifelong memories of fun that they'll cherish always. The party provided fresher's a platform to confrontation with their seniors and make new friends, meet people from all departments.

Organized by the student union of Hansraj College, ALACRITY - the fresher's party fascinated all the students of our college and nearly 600 students turned up for the event. Despite some difficulties in managing such a huge crowd this party turned out to be a huge delectation. There was a lively atmosphere as the students danced gracefully. The event was sponsored by 'Zoom car', 'CHEM Academy', 'Brain humor', 'Mufti', 'Pehal' Photography, 'Magic Pin'.

Photo booth by Pixels and Magic pin and Zoom car stalls entertained students. LED screen was placed, students followed the dancing steps through the beats displayed visually. It was an amazing event. The hosts were very entertaining and caught the attentions of students.

Ankita Choudhary, world renowned fashion designer was present at the event to promote her international fashion brand "SAAJ".

The event started with the host Karan Singh and Aishra Bhatia addressing the crowd followed by a dance performance by three students from first year. The event that fol-



*"Immensely happy to be a proud Hansarian: well developed infrastructure; experienced professors; remarkable L.P also the library. But a college diary would always be incomplete without those crazy friends whom we hold hands in hands to do various mischievous acts. In spite of all; being a fresher; I thank my seniors for the awesome fresher's meet placing a platform to meet and interact with all the fresher's which adds to an incredible and memorable experience from the very first year of my college days - 'Khelena Bachaspati' (Miss College Fresher.)*

lowed was Title Hunt – an event for which all the fresher's were eagerly waiting for. This event took place in three rounds. In the first round all the contestants performed ramp walk and introduced themselves one by one. The first round was followed by a comedy act from Manik. ...continue to pg.7[3]

## Gun for glory Championship



The Gun for Glory Shooting Championship, started by Gagan Narang, an Olympic bronze medalist, seeks to encourage shooting enthusiasts. It was held for the fifth time from 06-13 September, 2015 in Pune. Two participants from Hans Raj- Prerna Gupta (who won 3 gold medals) and Geetakshi Dixit participated in it, and made the college proud by performing very well.

## A Voyage of Excellence: Padam Shri Shovana Ji

SPIC Macay Chapter Hansraj organized VIRASAT'15, on 12th October in the College Auditorium. Carrying forward the legacy of inviting the most renowned artists of the India to the College. This time Hansraj chapter had the privilege of hosting a beautiful Kathak Recital by the versatile artist Padam Shri Shovana Narayan Ji. India's most celebrated and outstanding Kathak maestro of the present age. Well known both as a choreographer and performer. She blazed a trail in the field imbuing it with depth, maturity and ennoblement. She was accompanied by Ustad Shakul Ahmed Khan, a table maestro in his field, who is known for his rhythmic precision and control over his instrument. On vocals, Pt. Jwala Prasad a Hindustani Classical vocalist known across the world. On Sarangi, Sh. Nasir Khan Ji an eminent figure of his field. Padam Shri Shovana Ji performed her few best compositions which were 'Draupadi Chirharan' from Mahabharat and the life of Lord Buddha through the eyes of Yashodhra which was the most stunning part of her act. It was of the strong notion that no two words are separate as she concluded her performance by



Padam Shri Shovana Narayan Ji performing at stage.

stating the beautiful line of L.M Singh 'Dushshan Bas karo Dharti ka chirharan mat karo' which meant we are the present day culprits who are destroying our mother Earth. Kathak exponent enthralled the audience with her mesmerizing foot work, facial expression for which crowd showed up in huge members and applauded the artists with standing ovation. After this the principal Dr. Rama, presented special gifts to the artists as a token of love for spending their valuable time. The event concluded with the vote of thanks from the SPIC Macay's convener Dr. Aparna Garg.

## SWACCH HANSRAJ SWASTH HANSRAJ



Mahatma Gandhi has said "Sanitation is more important than independence". Cleanliness is an integral part for the well-being of the physical body, and for a focused mind. In remembrance to Gandhi ji's words, Prime Minister of India Narendra Modi, launched India's biggest ever cleanliness drive, in which millions of people and many college students participated. Following the pulse, a cleanliness drive was organized on October 1, 2015 by 'Haritima', The Environment Awareness Society of Hansraj College, on the occasion of Gandhi Jayanti, in the college premises. The agenda of the society was "Swacch Hansraj Swasth Hansraj"- 'Ek kadam swacchta ki orr' ...continue to pg.7[2]

## 309 lives saved - Blood Donation Camp

Blood Connect, in collaboration with NSS Hansraj and AIIMS Hospital, organized a blood donation camp in the college premises on 29th September. While many people have false notions of having ill health effects of blood donation, the donations are usually not half as many as expected. "If you don't believe us, then just give it a try and donate blood", was the motto with which the camp was publicized through online and offline media to encourage donations in larger numbers. The theme of the camp was Gandhi Jayanti, for which the Rangoli and quotes were displayed. Frequently asked questions about the health effects of blood donations and proficiency of doctors were raised by the public, which were



entertained by professionals. The camp was guided under well-trained professional doctors, NSS Convener, Dr. Baljeet Kaur, and students who never let break the healthy environment for, and the safety of donors. All those who donated were provided with the refreshments to incentivize their participations. In total 103 units collected which will save 309 lives. The camp held high an "I Donated" banner, where the donors wrote

about their first thoughts after donation. It was handed over to the NSS Convener as a memento. It makes one feel immensely proud to see donors reach out to the world with a pledge to make India free from blood shortage, and to donate to that person who needs blood for a life to live, and smile and dream in. Many donors registered themselves as emergency donors with the Blood Connect, which made the event a huge success.

## The Hostel Day - Fresher's

Hostel seniors of the college help a grand fresher's day for the new students who have joined the hostel. It started in the evening at around 5:30 PM. The dress code for the fresher's in first year was white shirt and shorts, and the second and third year students could wear anything of their choice. The celebrations started with munching on delicious snacks. The party got on the roll after an hour, when it was graced by the presence of the college principal Dr. Rama, the hostel warden, the deputy

hostel warden, the hostel manager, the hostel in-charge, and some professors enrolled with the college. The hostel secretary, who was hosting the event, talked about the legacy and the traditions of the hostel with the newcomers, and told them about some of the hostellers who have achieved great heights in several fields. After a lot of fun activities like skit performances, singing and dancing competitions and paper dancing, the group ended the day with going for the movie "Katti Batti" later in



the evening. The newcomers were all praises about the grand welcoming by their seniors, and the day resulted in a stronger bonding among the hostel students. We hope the newcomers have an amazing year ahead!



## Diwali Mela and the Little Hansarians

On 16th October 2015, NSS Hans Raj organized its annual Diwali Mela. It was a grand affair with various competitions and food stalls. Beautiful handmade articles such as wall hangings, diyas, pen stands and bookmarks made



their hair braided into various colours. Delicious Bhelpuri from the Bhelpuri stall was also very tempting for all. Students played multiple rounds of the 'Lucky Seven' game. The game of lucky 7 was set up where in people had to bet over a number lower or higher



by the volunteers were sold. For the handmade dairies, student contacted a lady who made and also sold them. The highlight of the Mela was the "golgappa eating competition". It attracted a lot of attention of students that they rushed to participate. The person who ate the maximum golgappas in 30 sec won a prize. 'Dedicate a song' stall and 'Dare to Propose' excited

the students even further. In Live Music Students could request a song that they wanted to be played and in Dare to propose, a student was supposed to propose a random stranger with a rose. Some seniors have a startup called cake-o-frost. So they sold their cup cakes to students and everybody loved them. A lot of girls were seen getting

than 7 or 7 itself. The Mela's proceeds would be utilized for the Padhaku kids. Their own creative stall had put up all the craft material made by the volunteers and the team. The proceeds of the same will be utilised for fulfilling the needs of Padhaku kids. The event was successful in spreading smiles and giving the students a day off from studies.

## गांधी जयंती पर 'मोटेराम का सत्याग्रह' का मंचन

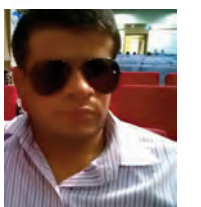


एन. एस. एस. एवं छात्र संघ हंसराज कॉलेज के तत्वावधान में अस्मिता थिएटर ग्रुप की ओर से हंसराज कॉलेज सभागार में गांधी जयंती के अवसर कलाकारों ने प्रेमचंद की कहानी 'सत्याग्रह' का नाट्य रूपांतरण 'मोटेराम का सत्याग्रह' पेश किया। इसके तहत मौजूदा सरकारी तंत्र में अफसरों द्वारा की जा रही सरकारी खजाने की फिजूलखर्ची पर कटाक्ष किया गया। सधी हुई संवाद आदायगी के जरिए कलाकारों ने सरकारी-व्यवस्था पर भी व्यंग्य कसते। इस दौरान कलाकारों ने लोगों की खूब वाहवाही बढ़ाई। नाटक देखने के लिए उमड़ी दर्शकों की संख्या इतनी ज्यादा थी कि सैकड़ों दर्शकों को बड़ा सभागार होने बावजूद जगह न मिल सका और लोग खड़े होकर नाटक देखते रहे जबकि बहुत सारे लोगों को वापस लौटना पड़ा।

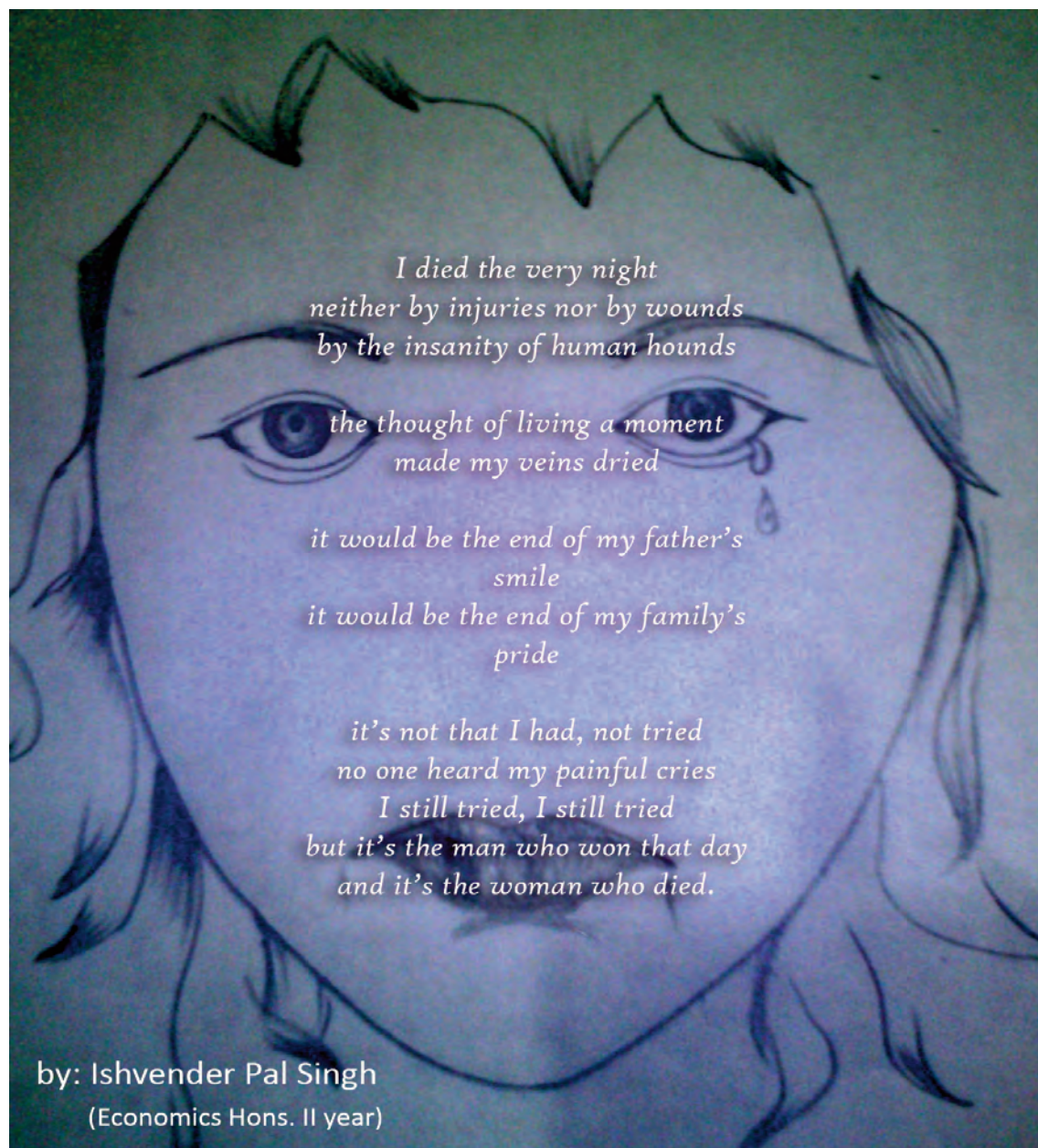
जीवंत, सुस्पष्ट और व्यापक तस्वीर उभरती है। 'मोटेराम का सत्याग्रह' में अनुभूतियों की जितनी तीव्रता दिखाई पड़ती है, उसके मूल में इसके संगीत की बड़ी भूमिका है। उन्होंने नाटकीय कार्य-व्यापार को बल देने वाले और कथास्थितियों को अर्थ-सचन बनाने वाले एक अनूठे रंग-संगीत का उन्मेष किया है। प्रस्तुति में पंडित मोटे राम, मजिस्ट्रेट, चमेली जान की भूमिकाओं में कलाकारों ने खूब प्रशंसा पाई।

जहाँ तक इसकी प्रासंगिकता है तो ब्रिटिश हुकूमत के दौरान अफसरों की जैसी कार्यशैली वर्तमान में भी मौजूद है। व्यापारियों की अंग्रेज भक्ति, औपनिवेशिक शासकों और सामंतों का गठबंधन, अफसरशाही द्वारा आका को खुश करने के लिए एंडी-चोटी का जोर लगाने की प्रवृत्ति तथा स्वाधीनता आंदोलन से जनसामान्य के जुड़ाव जैसे अनेक विषय इस कहानी में पहले से ही मौजूद थे, पर अरविंद गौड़ के नाट्यरूपांतरण में यह हमारे समय की विडंबनाओं और विवशतियों का प्रामाणिक दस्तावेज बन गया।

इस अवसर पर कार्यक्रम के प्रारम्भ में गांधीवादी चिंतक सुश्री राधा भट्ट ने आज के दौर में गांधीवाद पर विचार व्यक्त किया तथा कॉलेज प्राचार्या डॉ. रमा ने आगत अतिथियों एवं नाट्य कलाकारों का स्वागत एवं सम्मान किया और भविष्य में इस प्रकार के शैक्षिक एवं अकादमिक कार्यक्रमों के आयोजन एवं इस तरह की गतिविधियों को प्रोत्साहित करने पर बल दिया।



By- Mukesh Pawar  
Hindi (H.) IY



चर्चित निर्देशक अरविंद गौड़ के निर्देशन में मंचित 'मोटेराम का सत्याग्रह' ने एक बार फिर से धर्म और राजनीति की दुरभिसंधि के समाज पर पड़ते वाले घातक प्रभावों को अपने विशिष्ट अंदाज में प्रस्तुत किया। अभिनय, प्रकाश, ध्वनि, सेट, वेश-भूषा आदि बेहतर समन्वय और उपयोग से मंचन अत्यंत प्रभावी और विशिष्ट बन गया।

यह नाटक अंग्रेजों के शासनकाल में अफसरों के तौर-तरीकों पर आधारित है। इसकी कहानी के मुताबिक, वायसराय के स्वागत की तैयारियों में ही फिजूलखर्ची से नाराज दुकानदार और लोग हड़ताल करने

आम तौर पर अपने नाटकों में राजनीतिक-सामाजिक विषयों पर गंभीर टिप्पणी करने के लिए जाने जाने वाले अरविंद गौड़ ने इस आख्यान को जीवंत बनाए रखने वाले हास्य के विविध अर्थभेदों को इतनी कुशलता के साथ पेश किया है कि वे न सिर्फ हमारा स्वस्थ मनोरंजन करते हैं बल्कि हमारे दिमाग को, हमारी चिंतन शक्ति को भी झकझोर देते हैं। उनके अन्य नाटकों की तरह यहाँ भी हमें सच्चाई और सरलता की वह खनक मिलती है, जो जनता की जिंदगी और नियति के साथ एक रचनाकार के गहरे जुड़ाव से आती है। नाटक में मौजूदा दौर की एक

## National Cadet Cops : Utrakhhand Track 2015



Utrakhhand Track 2015 was organized by 29 UK BN from September 14 to September 30 for Cadets from all over India. Delhi is one of the 17 N.C.C. Directorates in India, and Hansraj College, along with several other colleges of Delhi University, comes under the Delhi Directorate. Many students from NCC of Hansraj College, Satyawati College, Shyam Lal College and S.G.N.D. Khalsa College availed the opportunity of being a part of this trip. A total of 7 officers were selected from Hansraj NCC: SUO-Digvijay Singh, JUO's-Ravikant, Vikram Singh, Vivek Tomar and

Ankit Kumar, and Sargent's- Vikas Kumar, Sumit Kumar. In total, 534 Cadets were selected from all over India. The trip consisted of four seemingly arduous tracks and adventurous visits to several sites. Dehradun was the site of base camp. The tracks: Bizapur to Gajuari 14.2 kms. up & down by foot, Dehradun to Santaldevi Temple 15.7 kms. up and down by foot, Dehradun to Maldevta 21 kms. with bus and 7.1 kms. by foot, Dehradun to Mussoorie to Hathipaon to Vinor Hill to Cloud ends 34 kms. with bus and 12.4 kms. with foot up and down. Following were the sites visited: In-

dian Military Academy (IMA), Forest Research Institute (FRI), Kumao BN (Army Battalion), Rastriya Indian Military College (RIMC), C.M. Heritage, T.A. (Eco force) who helps in plantation, Bhadarkali River and artillery visits. The students had a great time not only learning but also having a lot of fun along the way. This trip was a success in terms of what knowledge and experience it wanted to provide the students with, as the students felt more confident and knowledgeable when they returned. For some of them, it was the most adventurous trip they have ever went on.

## The Social Night: Hansraj meets Miranda

Hansraj hostel annually celebrates a social night with the hostel students of Miranda House. The night is celebrated with various events and competitions which help the students get to know each other better for furthering a socially more advanced experienced of being in the north campus of Delhi University. This year, it was celebrated on October 4, 2015. Around 80 students from the hostel participated enthusiastically. The function began with introducing the newcomers. Then, the entire group was separated into pairs of one boy and one girl by randomly picking chits out of a bowl. Several fun events like dialogue performance, paper dance, couple dance, etc. followed, and the students had immense fun throughout the function. Sandeep from B.Sc. Physical Sciences first year won the title of the best couple along with his partner Aena. It was certainly a memorable night in campus for the students.

## N.S.S: Chuppi Todo Baithak Collection Drive

NSS Hansraj organised a Saree and Paper Collection Drive in collaboration with the NGO Goonj on 7th October 2015. This charitable event attempted to collect donations from across the college in order to aid the poor sections with them, targeting women primarily. The teachers as well as the students donated recyclable papers and sarees that were in good condition, in large numbers.

Later, on the same day, there was a Chuppi Todo Baithak where people from 'Not Just A Piece of Cloth (NJPC)' by Goonj came to spread awareness on menstruation and to break the taboos surrounding it. They told us about how women use ash, gunny bags, rags, etc. for menses. A lot of students initially unwilling to talk about it, took to the forefront by the end of the seminar. It was an enriching experience for all.

## White Cane Safety Day: A walk for 'EQUALITY'

On 15th October 2015 for the first time in the history of Hansraj College an event i.e. White cane safety day held which was organized by Equal Opportunity Cell with the joint effort of Enabling Unit & Society of General Awareness, where they promoted for a safe environment for the blind students and people to walk safely on roads and to make people aware to help and support the visually challenged people in their daily life. For conducting this event they organized a peace rally where 200(approx.) students participated and marched throughout the college as well as to the road connecting kamla Nagar and Malkaganj to Hansraj college where joined students made voice to reach to the people about the awareness of helping visually challenged people to cross the road. All the members of both societies joined this movement and made the people to know about this noble cause.



Enabling Unit convener Dr. Rajesh Sharma along with co-convener Ms. Parul Pant, Dr. Chetna Gupta, and Dr. Vandana Singh has initiated the March with their valuable token of words of wisdom about this day. They informed the students that this day was celebrated after the joint resolution made by the United Nations since 1964. In 2011 this day was also named as Blind Americans Equality Day by President Barack Obama. Apart from the peace rally many fun events were organized.

- They were:-
1. Blind Fold walk
  2. Name & Fame
  3. Kaisa yeh Paisa
  4. Jhakkas Talkback

About 300 students participated in these games and enlightened themselves with chocolates after successfully completing the given tasks. All the volunteers who were in the march were provided refreshments. The convener of Society of General Awareness Dr. Preeti Dharmaraha also

participated in this event and she quoted that "Helping visually challenged students will make students to realize yourself a Good human being and a responsible citizen to the country." Even Dr. Satendra Srivastava Faculty of Philosophy Department Hansraj College has also participated in the event and blessed us with his positive attitude to the event. Students are very keen to organize this event every year with full enthusiasm and commitment.



## Academic Evolution of Hansraj College

Hansraj College, I often wonder, if it is just a college building or a live entity. I think, I ponder, I dream and draw the conclusion that Hansraj College has a soul and is not just a building made of bricks and mortar.

Established on 26th July 1948, a constituent college of University of Delhi, our college has been contributing to the development of emotionally balanced intellectuals with above board moral values, who are concerned about the social problems and are up-to-date with the very latest developments in technology and drift in the culture.

The College has been providing a liberal and nurturing atmosphere for academic growth over almost last seven decades. Here, teaching & learning is an innovative amalgam of traditional and modern methodologies, resulting in becoming a natural choice for students. The commitment of the college towards holistic growth of the individuals has been able to attract the best students in academics, sports, and co-curricular activities.

The conducive environment of the college has been instrumental in very successfully meeting the challenges of diversity among the students in terms of gender, regional & economic background, capabilities, talent, special needs and aspirations. The mission of the college is "Tamo Ma Jyotirgamaya"; Lead us from Darkness to Light. The college is a firm believer of the philosophy of expanding the understanding of the self through education. I just could not resist being a part of the

first edition of this Newsletter. I am taking this as an appropriate opportunity to apprise the students of the journey of evolution of the academic soul of our college.

Way back, on 25th May, 1948, DAV Managing Committee unanimously passed a resolution that a new college shall be opened in Delhi, to be named as Hansraj College. The most befitting educationist, Dr. G. L. Dutta was chosen to be the first Principal of the College, which had a humble start in two rooms in the premises of DAV School, Chitragupta Road; offering only two courses, Prep. and B.A. (Pass). Mr. Anand Prakash was the first student enrolled in the college. Honours courses in Mathematics, Economics, English, Sanskrit, Philosophy, History and Hindi were introduced. The college started the classes for M.A. Sanskrit, Hindi and Mathematics in 1949-50, while B. Com. (Pass) was started in 1953-54. While History (Hons.) was added in 1956-57, session 1962-63 witnessed the introduction of B. Com. (Hons.); wherein a batch of 40 students was enrolled. In the very next year, M. Sc. Physics, Chemistry, Botany, Zoology and Anthropology were also started. Continuing the journey of expansion, as well as in light of ever increasing demand, the Management decided to add M.A. History and B. Sc. (Hons.) in Geology in the session 1968-69.

After almost three decades of serving the society and producing best of students, the college became co-educational for undergraduate courses also in 1976.

Till then, there were only 32 female students enrolled for M. A. classes. The beginning of 80's witnessed addition of M. A. Economics. Thereafter, M. Com. and B. Sc. (Hons.) were added in the curriculum in 1987. With the start of next session, an equipped Electronics lab was made functional while B. Com. (Pass) was discontinued.

To keep pace with the changing environment, the Honours course in Computer Science was added with the start of 1998-99 session.

By now, our college is almost like a mini university, shaping the future of more than 5000 students and grooming them into the future builders of our country and brand ambassadors of our values globally.

In my 35 years of association with the college, starting as a first year student in 1981, and then as a teacher since 1987, I have lived and grown with this temple of learning. I am indebted to the Almighty for giving me the opportunity to be a part of this movement called Hansraj College and pray that being an Hansrajian, I get strength to imbibe the values of selflessness, truthfulness, self-discipline, commitment and service. I wish to use my skills to transfer the knowledge and strength of character, which this institution has filled in me, to the coming generations.



By- Dr. Preeti Dharmarha  
Associate Professor,  
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## Seminar on Skill and Personality Development

With the aim of all over personality development and enhancing professional skills, Society Of General Awareness organized an event on 28th September, 2015 at 12.40 PM in NR2 (Main building). The program was to guide the students for internships, jobs and interviews and also to find out the unique quality in themselves which make them different and better than others and to convert themselves into a brand.

The art of managing and basic employment skills were well framed by the chief speaker Mr. Kamal Seth, founder of human circle organization. The event turned out to be a fruitful one as it was focused on communication, personal brand management and how to achieve excellence in the competitive world.



## A Talk on Bacterial Cellulose and its Applications

Scienza Di Vita: The Life Science Society of Hansraj College, organized its inaugural lecture for the session 2015-16 on October 12, 2015. The program was hosted by the president of the society, Aena Mehta. Professor R.K. Saxena, Head of the Dept. Of Microbiology, South Campus addressed the audience. Prof. Rajendra Kumar Saxena is teaching at University of Delhi for the last 40 years. He established the Department of Microbiology at South Campus and headed it for more than 13 years, he has been the Dean, Faculty of Inter-



disciplinary and Applied Sciences for 3 years. The topic of the lecture was "BACTERIAL CELLULOSE: A GOLDEN BIOPOLYMER WITH IMMENSE INDUSTRIAL APPLICATIONS". Importance of bacterial cellulose in

various industrial sectors along with the production, scale-up, purification and characterization were discussed. The program commenced by lighting of the lamp and a recitation of Saraswati Vandana. The president then welcomed the audience with her speech. Thereafter, Prof. Saxena had a short interactive session with the students. A small token of appreciation was then given to the honorable speaker. Dr. Himanshu, the convener of the Life Science Society concluded the session and delivered the vote of thanks.

## Physics and Electronics Department Visit NPL and NSC



The Physics and Electronics Department of Hans Raj College visited the National Physical Laboratory and the National Science Center on its open day which was celebrated on September 30, 2015. National Physical Laboratory is the National Metrology Institute of India and a premier research laboratory in the field of Physical Sciences. All the physical parameters and standards are examined and analyzed by NPL. The SI system in India was established by NPL in 1958. NPL is working in various experimental field of Physics. Covering research from material

science to space science, all the instruments are designed. This is one of the best place in India for students to get the flavor of new and interesting researches. As per the NPL rules, Hans Raj College decided to take 30 students (23 majoring in Physics; 7 majoring in Electronics) and 6 teachers on 'first come, first serve' basis. The department visits NPL every year. Third year students are allowed to occupy the seats. The department arranged a bus to the laboratory, and reached it at 10:00 AM. Students were guided by reputed researchers. Many informative posters were on display,

which the researchers helped the students understand well. The students were enthralled to see the Radio and Astronomy Science Division of the laboratory, which analyzes the ionosphere and Earth protection from space. After spending about three hours in NPL, the department visited the National Science Centre (also known as National Science Museum). They engaged themselves with the many science based exercises that NSC had to offer them, and a lot of posters that were on display there. As per students' remarks, the visit was quite an enriching experience.

Here is what one student had to say about the visit: "Firstly, I would like to thank my teachers for organizing this educational trip and giving me a chance to visit such great sites. I was eager to visit NPL since two years as it has very sophisticated instruments. A great deal of research is always going on there. NPL is serving India since the last 6 decades. I was fortunate to visit it. I might not have learnt a lot that I can directly make use of, but seeing the people enrolled there and their devotion towards science certainly inspired me. These visits are like seeds for success in our life. Spending even a few hours at such places is very useful."

## A Seminar on Career Counseling, ORDINATEUR

Ordinateur, the Computer Science society of Hans Raj College, organized a career counseling session on October 1, 2015 in Room NR-2, with the invited speaker

Dr. Ritukar Chaddha, M.Sc. in Mathematics, and Ph.D. in Fuzzy Logic. He has worked as a Visiting Faculty in a college affiliated to GGSIP for B.C.A/M.C.A and B.Tech classes. He has written a number of books and is presently working as the Director of Landmark Institute. He is also the founder and CEO of a new IT company "MeriPaddhai.com". He continues to evolve as an educationist to serve the nation.

The seminar begun with a welcome address given by Mr. Adib. He welcomed the guest speaker and

introduced the guest to the students. Mr. Adib, then, requested the guest to address the students and enlighten them with his proficient



advice with regards to the possible career options for the students. Dr. Chaddha began his talk by enquiring the students about their interest in Mathematics and Logic. He narrated a significant part of the story of his becoming a reputed

professional to the students. Then, he spoke about the various topics in Computer Science. He focused on M.C.A. entrance tests and their syllabi. He also mentioned the top colleges which offer M.C.A. in India. He also inspired students to pursue their goals & interests and guided them about the corporate world.

He ended his talk by quoting a story of one of his own students, who has become very successful. After the guest's talk, Mrs. Harmeet Kaur, H.O.D, Computer Science, gave a vote of thanks and presented the speaker with a memento on behalf of the society. This was a great success as students learned a lot about the professional world they look forward to entering.

## Lumen Society Kicks Off

The Lumen Society, Department of Physics and Electronics held its inauguration on October 08, 2015. The society had invited the reputed Dr. V.K. Jain, Head of Amity Institute of Advanced Research and Studies (AIARS), Amity University, Uttar Pradesh, who the Principal herself felicitated by presenting to him a Tulsi plant. He gave an introductory talk on microchips and Nanotechnology. He discussed various ways of developing microchips and claimed its various applications. He ended the talk by concluding that Nanotechnology

will give many revolutionary applications in coming future.

Another talk was presented by Dr. Ashok Kumar who is a professor in Physics and Astrophysics department of DU, specialised on Detectors to detect very small and high energy particles. He explained working of detectors. The talk completed with vote of thanks from society. The event was an inspiring one for the students, and gave them a sense of an optimistic start. The new members look forward to an enriching and productive year.

## Workshop on Bioinformatics

The Zoology department organized a workshop on "Bioinformatics: Homology Modelling of Protein Structures and Protein-Ligand Docking" on September 28, 2015 under the aegis of D.B.T. Star College program. A lecture on the modern use of computer tools to structurally define proteins, probably the most important of all biological compounds was delivered to much of interest of the students by Dr. D. Mohanty of National Institute of Immunology, a pioneer in the field of bioinformatics. The workshop was aimed at providing hands-on experiences on using computer softwares

to identify the structures of proteins, and understand the docking of proteins and its respective ligands to the students of departments of Botany and Zoology. With increase in the number of physiological disorders that have either mutated protein(s) or misfolded protein(s), the workshop was also aimed at inculcating in students the scientific temper to get a directional approach in understanding the disorders right. With 30 students from both the departments participating in the workshop, the teachers and students of the Zoology department did a great job in pulling off a successful event.

## ORDINATEUR organized WEB DEVELOPMENT WORKSHOP

Amidst the urgent need and growing demands for websites, and the swiftly growing field of Computer Science, ORDINATEUR, the Computer Science Society of Hansraj College conducted a 4-day workshop on Web Development in room NR-2. About 60 second and third year students from the Computer Science Department joined quite enthusiastically, along with 10 volunteers assisting them. Volunteers from second year, Paras Jain, Ashita Diwan, Mridula Garg, Swapnil Ojha, and from third year, Shobhit Aggarwal, Vishal Pandey, Purnima Yadav, Jatin Aggarwal, Sherab, Prateek of the C.S. department came forward to help the students with organizing the workshop. Students who wished to share their considerable knowledge about Web Development spoke on various topics like HTML, CSS, JavaScript, PHP and MySQL under the guidance of teachers. The important and basic topics were covered quite efficiently as stated by the



attendees. On September 23, the first day of the event, Shobhit Aggarwal, Purnima Yadav and Vishal Pandey of third year C.S. department spoke on relevant topics of HTML. On the second day, Purnima Yadav and Jatin Aggarwal taught the students certain aspects of CSS. On the third day of the event, September 28, Swapnil Ojha and Paras Jain explained basic topics related to JavaScript. The workshop culminated with PHP and MySQL being taught to students on the final day by Shobhit Aggarwal, Vishal Pandey and Prateek of third year C.S. department. Assignments were given to students at the end of every day's session for the purpose of practicing. Learning was the primary incentive of this workshop, and its successful organization enabled the students to learn many new and important things about Web Development.

## OBITUARY

Hans Raj college mourns its great loss of the greatly loved and respected Late Mr. Balwant Singh, whom we lost on October 10, 2015. His term with us as a Lab Assistant in the Physics Department was certainly a wave of happiness. His loveable character would be greatly missed and his contributions to the college forever remembered. He is in our prayers and we extend our best wishes to his family.



Hans Raj college mourns its great loss of the greatly loved and respected Late Mr. Prashant Minj, whom we lost on September 29, 2015. His term with us as a Student of 1st year in the Physics Department was certainly a wave of happiness. His loveable character would be greatly missed and his contributions to the college forever remembered. He is in our prayers and we extend our best wishes to his family.



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## ENACTUS AT WORK! - Project Boond



The previous year brought a lot of glory to Enactus Hans Raj. Its sincere year-long efforts at the Enactus India National Competition 2015 invested in the team's Project Boond and Project Mithaas helped it secure the 3rd position at the national level. Project Boond aims to provide access to clean drinking water to the unprivileged through purifiers that do not use electricity and Project Mithaas establishes beekeeping as an alternate source of income for the farmers. Team members representing the college at the competition attest to the event being exhilarating and satisfying in addition to being a memorable learning experience.

Enactus Hans Raj followed a rigorous recruitment process this year, carefully choosing new members from a pool of immensely skillful aspirant entrepreneurs willing to make the world around them a better place. A new session hence brings to Enactus a new team, which undoubtedly retains the old spirit and unflinching zeal of the society. With the new pool of

talented members come new ideas and a renewed sense of enthusiasm. The members hope that this year would be even more rewarding than the last, and that they are able to positively impact and transform lives of those in need while creating young leaders to take on the world. Project Boond is an initiative by Enactus Hansraj to provide the unprivileged masses, who cannot afford purifiers available in the market, with an easy access to clean drinking water through the production of low cost water purifiers that run without electricity. The water purifiers are based on a multi-stage Carbon Filter - UF Membrane purification system which gives pure water and protects against water-borne diseases. The students, during their need-assessment survey, found out that the people living in slum areas in Delhi are mainly occupied with manual work that does not pay enough to sustain their lives. They are dependent on the municipal taps for water supply, which is often not fit for drinking purposes. So they came up

with the idea of providing them with low-cost water purifiers make clean drinking water accessible to and affordable for them.

The project has been successfully implemented and has greatly solved the problem of clean drinking water for many. The team is working towards spreading awareness about water sanitation and its need. Production of these purifiers is carried out by an intellectually challenged community under NGO Samvedna in Delhi. The community is being empowered in a manner that will ensure an improvement in their livelihood by instilling in them a sense of confidence and a belief that they are accepted by the society, along with providing them a financial stability.

With the expansion and growth opportunities that the Enactus team visualizes, Project Boond has the potential to solve a major clean-water crisis that is faced by thousands of people in the city alone every day.

## WOMEN Power, Nation's Power

With sheer elegance, a determined brow and resoluteness trailing, Ms. Rekha Aggarwal walked in as the guest speaker for the introductory event of Women Development Cell, Hans Raj College. Having completed her graduation in English Literature from the St. Stephen's College, and LLB from the Law Faculty, University of Delhi, she has now been practicing for more than 25 years in the High Court of Delhi.

She started the session with a word on Domestic Violence, the words with much deeper connotations than most of the attendees knew. She discussed several real life cases which she has come across in her career of

25 years.

She also threw light on the POCSO Act, 2012, which the state seeks to spread awareness about. It is elaborated as Prevention of Children from Sexual Offences Act, 2012. She discussed about the general problems faced by people (and women especially) like Domestic Violence, Sexual Harassment, Sexual Offences against children and also made the attendees aware of the immediate relief measures available under the Indian Penal Code and other legislations.

Within a session spreading over for several hours, she entertained a lot



of questions from her listeners, which marked the success of the event. Her interactive session gave the attendees some food for thought to mull over, having made them more conscious and well informed than before. There could not have been a better start to mark the commencement of the activities of Women Development Cell, Hans Raj College.

## 100 PAISE makes a ₹UPPEE - MONEY MATTERS



Stock Guru



Breaking Brands



E-TALK

The Investment and Finance Cell, Department of Commerce, Hans Raj College organised Stock Guru - a freshers' inter-college mock stock competition yesterday on 9th October 2015. The competition comprised of two main rounds - the prelims and the finals, which were further divided into two rounds each.

After two intensely occupying rounds, the results were declared, with the prize money and goodies from Worlds of Wonder being distributed on the spot.

The winners were as follows:

First position - Aarush Jain and Rohan Bhatia from SSCBS; First runner-up: Sankalp Vohra from Sri Venkateswara College; and Second runner-up: Gagandeep Singh from SGGSCC.

The competition gave the students an insight into the nitty gritty of the finance world.

The Marketing and HR Cell, Department of Commerce, Hans Raj College organised Breakin Brands - an inter college marketing competition.

The competition comprised of two main rounds - the prelims which was a marketing based case study and the finals. It witnessed a footfall of over 300 participants, who represented colleges from all over Delhi.

After two intensely occupying rounds, the results were declared, with the prize money and goodies from Worlds of Wonder being distributed on the spot.

The winners were as follows:

Winners: Ishan Ambaradar and Ujjwal Chugh, NSIT; First runner-up: Vasudha Bassi and Veni Arora, SRCC.

Second runner-up: Priyanka Banthia and Shikhar Lohia, SSCBS. The competition was effective in giving the students a chance to enhance their problem tackling skills.

The Department of Commerce, Hans Raj College, organized a panel discussion "E-Talk: where revolutionaries plot the future" on 19th October 2015, Monday in the college auditorium. The topic for the discussion was "Current start-up ecosystem in India".

The panelists for the event were Mr. Alok Vaish, CFO, yatra.com, Mr. Rohit Chawla, founder, iLabs and shopsberry.com, and Mr. Umang Kumar, president, cardkho.com and co-founder, gaadi.com. The moderator for the discussion was Vinayak Singla, a commerce student from the college.

Main topic discussed: The current entrepreneurial ecosystem, How to go about failures and Funding. Many other points were discussed.

The audience listened to the discussion keenly, and asked various questions from the panelists, it helped broaden their horizons.

## ADAPT, adopt a Plant

One more event in the campus of Hansraj on 29th Sept 2015, ADAPT BY LEADERS FOR TOMMOROW. The event was based on the noble cause of plantation, they planted around 65 saplings in the campus. Their targeted areas for plantation were lawn near amphitheater and playground area. The event was led by Payal LFT college head and co-head Abhishek. Around 80 volunteers came up for the noble cause and event became successful in its plantation drive and grabbing the attention as well. The event was executed well by its members - added a source!!



## 'ILLUMINATE' An Entrepreneurial Talk

ILLUMINATE recently organized by Entrepreneurial Cell in Hansraj College along with Eureka on 3rd October 2015. A platform bringing together young and budding entrepreneurs from diverse fields designed to emulate the process of the growth of an idea to a full-fledged startup and providing a 360 degree and holistic experience. The aim of the workshop was to create awareness about the intricacies related to entrepreneurship, scripting a Business Model, marketing and finance.

The biggest question arises in a young entrepreneur's brain is "What is a startup and how to go about it? According to Chirag Kapil, Co-Founder Leaf at Illuminate it's a group of people who come together to do something valuable and meaningful." "What is the biggest reason for one's success? It's his or her team." "Most people think a startup is a tech company. It is not a tech company, it is a tech driven company." Vardan Walia, North Head Oyo Rooms removed one of the biggest fears of a starter by telling startup is an idea that has magic to create wonders whether simple or technology driven, hardly matters, all that matters its uniqueness and power to influence lives..

"Don't enter a market, create a market. Don't create monopoly because it sounds nice. Do something different. Let you will end up competing with prices." Nishchal Dua, Founder Amicus Shopping Assistant gave an



important lesson to innopreneurs "Competition is for losers. In competition people have price competition which erodes profits and leaves no scope for innovation. Monopoly is success. You create monopoly not through success but through innovation." e.g. Google.

Gaurav Singh-Business Development Head, Josh Talks defined Josh in one line as Inspiration made accessible to the youth and asked them to use this is time to act upon and show tangible results of their efforts.

The event ended by a truly motivational talk with Rahul Maheswari-Founder, Artist at Work Productions who has recently completed his graduation from Hansraj College. As a fresher, he had expectations of a lot of creative societies in college. Being rejected by every society and he started thinking if this was the

end of my life in DU but now he thanks his seniors for rejecting him because had they not rejected him, he would not be here at this platform providing professional services in the field of art.

The event covered stories about struggle, challenges and hardships that people face in their path to success. The students are hoping more such events are organized in the college providing them an interface with the practical world beyond books and help learn from others experiences. They want societies to bring together bright minds of entrepreneurs to give talks that are idea-focused, and on a wide range of subjects, to foster learning, inspiration and wonder - and provoke conversations that matter at the end of the day as said by Payal, a first year B.com Hons. Student.

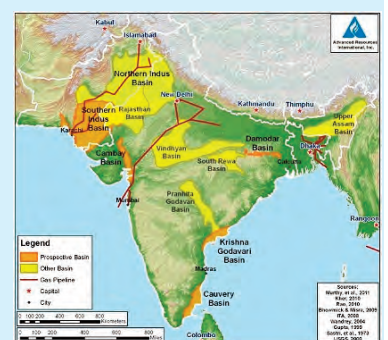
## Shale gas - The Answer to India's Energy Woes

India's energy sector has always been in a state of perennial deficit, with the demands far exceeding the supplies. This has forced our policymakers to resort to imports which in turn have burdened our economy with seemingly insurmountable debts. A recent study states that 78.75% of India's crude oil demands are compensated with imports. This means that in the current fiscal year, India will have to spend a staggering USD 115 billion to meet the nation's ever increasing oil consumption as per the current barrel rate which is slated to increase steadily.

The import dependent oil industry is just one part of India's grim energy scenario. The country's natural gas market is also reeling under shortage of supplies. In the last fiscal quarter 38% of the gas demand was unmet. As a result, the dependence on LNG imports has increased and there has been an underutilization of gas-consuming industries, particularly in the power and fertilizer sectors. Additionally, the existing gas-based units have to rely on expensive alternative fuels such as naphtha, diesel, furnace oil and LNG to meet demand. The gas shortage problem has been aggravated by dwindling production levels in the KG-D6 block. Therefore, the construction of new gas-based units, particularly in the power sector, which were allocated supplies from the block has been stalled. This means that the country's dependence on imported gas is likely to increase considerably. The share of imported gas in India's total gas supplies is

likely to increase from 22.5% in FY12 to 54.2% in FY22. In addition to this India's thermal energy sector is in a perilous state. Having said that, the bureaucratic inadequacy, political indecision and crony capitalism are partly to be held responsible in addition to the unfavorably skewed demand to supply ratio.

India's January 2015 imports included 12.76 million tonnes of power-generating thermal coal and 2.40 million steelmaking coking coal, according to the data from a joint study by Tata Steel and the Steel Authority of India Ltd. Given the state of the supply deficit and heavy reliance on imports, it becomes imperative for India to harness all its energy resources, including shale gas, appropriately. The unlocking of domestic shale gas can help India meet its growing energy demand, besides reducing its dependence on expensive energy imports and the energy import bill. According to the experts, there are many basins in India with rich shale energy reserves. But for the time being six such basins have been identified wherefrom extraction is possible. They are Cambay, Assam-Arakan, Gondwana, Krishna-Godavari, Kaveri, and the IndoGangetic plain. India also has a healthy shale gas recovery rate which hovers somewhere around as compared to the recovery rate of a mere 30% associated with conventional oil and gas. A case in point is Gujarat where the development of gas infrastructure led to the application of gas in new sectors such as industrial and commercial establishments in the ce-



ramics, glass, chemicals, textiles, pharmaceuticals and diamond industries, among others like the household and automobile segments have the potential to further boost city gas demand as well.

Once gas is cheap and widely available, it is possible to consider dealing with the "last mile" problem of providing home refuelling kits so consumers can fill up natural-gas powered cars in their own garages. In addition, under an exploration incentive scheme, companies receive subsidies for arranging drilling and hydraulic fracturing equipment. Other countries such as Algeria, Poland and China are currently in the process of framing new regulatory policies, which includes quicker land approvals and tax-free imports of equipment. In 2010, China created a National Gas Shale. Taking cue from these steps, the India's government and entrepreneurs must consider the immense untapped potential of India's shale gas reserves as a viable energy alternative.

By- Subhomay Saha  
Geology (H.) II Y





Kalam Sir is no more. When I heard this sad news on radio, I could not believe this. What an incidence that a teacher has lost his life among his students, while delivering a lecture. It took seven days to normalize myself because it seemed that I have lost my own father, my own teacher, who taught me through his books like Wings of Fire, Ignited Minds, Forge your Future, My Journey: Transforming Dreams into Actions. I had the opportunity to listen and interact with him in the years 2000, 2003 and 2010 at Vigyan Bhawan, University of Delhi and Teen Murti Library respectively. After meeting him I realized that how a hard worker scientist behaved like a 'saint'.

Kalam Sir was a man courage, conviction and commitment who inspired not only the young scientists of ISRO and DRDO but also students and teachers of schools, colleges and universities. Even while holding the post of President, he worked as an apolitical figure across all political parties. His simple but powerful speeches and inspiring writings have always ignited young minds. Being a scientist, he was well cautious that in the race of technical development we should not forget the value of humanity. In one of his

speeches he remarked—'We have guided missiles but misguided human beings.'

In all his speeches he emphasized the significance of human values by quoting the words of Martin Luther King Jr's – "The biggest crisis of present generation is the crises of human values." Therefore, it is our duty to nurture and inculcate ethical values as well as technical skills in school children.

Being even a scientist he did not have any negative attitude towards religion because he did not perceive science and religion as contradictory domains. He wrote in his Autobiography, Wings of Fire pg. 15-  
"I wonder why some people tend to see science as something which takes man away from God. As I look at it, the path of science can always wind through the heart. For me, science has always been the path to spiritual enrichment and self-realisation."

This view was well endorsed by famous scientist Einstein in a different way- "Science without religion is a lame and religion without science is blind."  
There are some thinkers who criticized Kalam as 'being hawkish' because he led the developments of

AGNI series missiles. But these criticisms are not very convincing. Our past experiences of our neighbouring countries have not been good. If any country attack on us then we cannot defend ourselves by this excuse that we are very poor and peace loving country, please do not attack on us. Therefore it becomes necessary for us to make our army strong by upgrading Science and Technology. Dr. Kalam did it by infusing the aphorism- "Only strength respects strength." into the minds of scientists and politicians. In this context he side-lined the view of even the great economist Prof. Amartya Sen, who said that May 1998, Pokhran-2 nuclear test was 'ill conceived.' (For detail, see Ignited Minds, pg. 109-10).

This does not mean that Dr. Kalam was not concerned about socio-economic issues like poverty, health, education, and unemployment. He was deeply involved in the solution of these problems. In his books like Ignited Minds, India

2020, Beyond 2020 and Target 3 Billion; PURA: Innovative Solutions Towards Sustainable Development, he identified five areas for integrated development of India viz. food-security, education, health, electricity and technology. Kalam emphasized the urgency of rural development for a better India. He re-established the Gandhian slogan that 'the soul of India lives in villages.' He opined that India can't be a developed nation without rural development. The migration from villages to cities is a big problem in India because it badly affects the urban infrastructure and also destroys the fabric of joint family system. Rural development is the only solution to this problem. He started PURA (Providing Urban Amenities in Rural Area) to serve the same purpose.

Kalam Sir was a man of action. There is hardly any difference among his thought, speech and action. This is the reason that a person belonging to a very poor family and

a non-descript place reached the pinnacle of such a meaningful success without compromising his integrity. His simple and heart touching speeches and writings will continue to inspire the coming generations. Some of his thoughts that he wrote and delivered in his various speeches are followings-

1. When a difficulty arises be the captor of it and defeat it. Let the difficulty know that you are too difficult to defeat.
2. Dreams are not those which you see in your sleep but are those which do not let you sleep.
3. When I enter into my laboratory then I leave all of my worries outside just as my father took off his shoes outside when he entered into the mosque for prayer.
4. Courage is the highest virtue because in the absence of it one cannot practice other virtue.
5. Thinking is capital, enterprise is the way, and hard work is the solution.
6. Indian youth must de-learn self-defeating way of life.
7. A good book is equal to hundred friends but a good friend is equal to whole library.

And finally, at the last page of his autobiography, he wrote in a very

poignant way-

8. This is the story of a lad who sold newspapers to help his brother, whose sister, Zohara mortgaged her gold bangles for his engineering fees, whose mother feed her last chapatti and kept herself hungry. This story will end with me, for I have no inheritance in the worldly sense. I have acquired nothing, built nothing - no family, sons, and daughters. ... I do not wish to set myself as an example to others, but I believe that a few souls may draw inspirations and come to balance that ultimate satisfaction which can only be found in the life of the spirit.

There is no doubt that his thoughts and teachings will echo in the heart, mind and soul of every Indian. Mother India has lost her true son. The real tribute will be that when we inculcate his teachings and philosophy of work culture in our life. We assure you SIR we shall do it definitely.

A tribute from a teacher who has lost one of the most inspiring TEACHER of Science and Humanity.

By-Dr. Satyendra Srivastava  
Email: satyendrassivas@gmail.com

## TRIBUTE TO "KALAM" SIR



## Natural Philosophy and Physics

Natural philosophy (derived from the Latin phrase, *philosophia naturalis*) is the philosophical study of nature and the physical universe. Application of the term "Natural Philosophy" preceded the contemporary discipline called natural science (i.e. empirical science). Empirical science historically developed out of Natural Philosophy.

From the mid-19th century, when it became increasingly unusual for scientists to contribute to both Physics and Chemistry, "natural philosophy" came to mean only Physics. Isaac Newton's book *Philosophiæ Naturalis Principia Mathematica* (1687), whose title translates in English to "Mathematical Principles of Natural Philosophy", reflects the use of the words "natural philosophy" in his times. And in the 19th century, a treatise by Lord Kelvin and Peter Guthrie Tait's, which helped defining much of modern Physics, was titled *Treatise on Natural Philosophy* (1867).

Even today, we make hypotheses, especially in Physics, on the basis of the concepts of Natural Philosophy, considering empirical data. Science as understood today is a little different from Natural Philosophy. For instance, Natural Philosophy states that all principles are consistent and expressible in some form as expressed in mathematical language, but it does not care about scientific data like scientists have fundamental force equation, and complete the equation and their constants by boundary conditions which are observe experimentally. This is the reason the term "Science" was defined, which marks

the difference between Natural Philosophy and itself. A Physicist always believes in Natural Philosophy and predicts that Natural Philosophy shall take over all aspects of science and umbrella them within itself. One can understand this process like this: The empirical data itself will be determined by understanding the theoretical aspects.

The term 'Science' gained its contemporary meaning when experimental science and the study scientific method became a specialized branch of study apart from Natural philosophy. In an axioms of Natural Philosophy, the Law of Causality, Causality is described by Natural Philosophy as invariant over time; the natural laws are expressible in a language that is mathematical in nature; and law of induction as well as other laws of nature are consistent. Natural Philosophy doesn't say that future is deterministic. It says there are laws, in which you can believe, on which every idea, every thought is built.

Natural Philosophy includes astronomy and cosmology, the study of nature on a grand scale; etiology, the study of causes; the study of chance, probability and randomness; the study of elements; the study of the infinite and the unlimited (virtual or actual); the study of matter; mechanics, the study of translation of motion and change; the study of nature or the various sources of actions; the study of natural qualities; the study of physical quantities; the study of relations between physical entities; and the philosophy of space and time.

The study of Natural Philosophy seeks to explore the cosmos by any means necessary to understand the universe. Some ideas presuppose that change is a reality. Although this may seem obvious, there have been some philosophers who have denied the concept of metamorphosis, such as Plato's predecessor *Parmenides* and later Greek philosopher *Sextus Empiricus*, and perhaps some Eastern philosophers. George Santayana, in his *Skepticism and Animal Faith*, attempted to show that the reality of change cannot be proven. If his reasoning is sound, it follows that to be a Physicist, one must restrain one's skepticism enough to trust one's senses, or else rely on anti-realism. Scientists propose hypotheses leading to coherent, organized theories that are eventually validated by experiments. The theoretical study of Nature i.e. theoretical Physics is grounded on Natural Philosophy. If the theoretical study is consistent with the preexistent theoretical study or natural philosophy, it must be true. A historical example would be that of 1960s, when seven experimental results were wrong against the theoretical formulation of an idea, because what was inferred from those experiments was wrong and theoretical results were already consistent with old theories and the idea was proved later experimentally with new approach by experimentalists. That is why theoretical Physics is a fundamental study, and it is concurrent with Natural Philosophy.

By- Mohit Khurana  
Physics (H.)-III Y

## Is It Not Our Problem? - European Migrant Crisis

Europe witnessed a most severe refugee crisis in the summer of 2015, with more refugees coming in than during the Second World War era. The Syrian population found itself at the centre of struggles amongst the regime, rebel groups and other extremist factions. All these groups are responsible for some of the most abominable war crimes committed against humanity, their methods including the use of chemical warfare, mass executions, large-scale torture, and repeated deadly attacks on civilians. An estimated one-third of the Syrian population has been displaced within the country itself while over 4,000,000 have had to flee the country. A lot of these refugees, about ninety-five percent, have been given refuge to by neighbouring countries namely Turkey, Jordan, Lebanon, Egypt and Iraq. The Arab states of the Persian Gulf, Saudi Arabia, Kuwait, UAE, Bahrain, Qatar, and Oman, together have accepted zero refugees, and this failure has been called 'especially shameful' by Amnesty International. The United Nations and The World Food Programme were not prepared for a refugee crisis of this scale subjecting people in the refugee camps to cold, hunger and disease. The Syrian lost hope of their situation getting any better, and so sought asylum in Europe. A small country of 23 million people has given birth to a situation that forced the world to look beyond their individual national boundaries and think of humans as global citizens. But is simply pondering over the problem enough to solve it? Between 2007 and 2014, The European Union has invested about €2 billion in defences, high-tech security technology, and border patrols, but not enough in preparation for an influx of refugees. Due to the Dublin Regulation of the Geneva Convention, a refugee has to stay in the state they arrived in first, which put enormous pressure on the border states that were already in trouble. Greece, in the midst of an economic crisis on the scale of the Great Depression, was not able to take care of so many people at once, leading to terrible scenes of desperate, hungry people on islands usually reserved for tourists. The world needed to come together and act as a united front but instead became more divided. Europe seems to have split into the "compassionate" West and "selfish" East. (Zaborowski, 2015)

To design a more coherent approach to the crisis, The European Commission considered allocating quotas of asy-

lum seekers to each EU state, to redistribute 60,000 people who had arrived in Greece, Hungary, and Italy. Previous attempts to craft a coherent approach were thwarted by competing for national interests and insistence by some countries, mainly the former communist countries which object to having policies imposed upon them by others.

The Visegrad Four, i.e. Czech Republic, Hungary, Slovakia, and Poland, downright rejected the refugee quota. These countries feel that distribution of migrants should take place on a voluntary basis. They have also demanded the borders of the Schengen Area to take more security measures and protect against smugglers while also devising a way to streamline returning refugees to their countries of origin. The Hungarian Prime Minister Viktor Orban has warned that the growing Muslim influx is threatening Europe's "Christian roots." Although the UK has agreed to provide asylum to 10,000 refugees, it is pushing for EU reforms to check migration within Europe (especially from Eastern European countries). Accepting a mere 0.25% of the total number of refugees coming to Europe from Syria, would not only demolish Britain's credibility of being a global power but would also deprive it of an opportunity to be a forerunner in finding a suitable solution to this problem. David Cameron, Prime Minister of Britain, has termed the recent wave of refugees coming to Europe as a "swamp of people". On one hand, he talks about increasing the intervention in the Middle East for "taking action right across the board, helping countries from which these people are coming, stabilising them and trying to make sure there are worthwhile jobs and stronger economies there." And on the other hand, he chooses to ignore that the intervention, although necessary, does not solve the problem of relocating the refugees. In 2014, the UK lobbied to stop an enormous search-and-rescue operation called *Mare Nostrum* that was designed to discontinue asylum seekers from drowning in the Mediterranean.

By-Shreshtha Verma  
History (H.) III Y



## शारदीय नवरात्र की महिमा

ऐसा माना जाता है कि 'शारदीय नवरात्र' धर्म ग्रंथों - पुराणों के अनुसार 'माता भगवती' आराधना का श्रेष्ठ समय होता है। यह पर्व भारत में महिलाओं के पूजनीय स्थान को दर्शाता है और इन पंक्तियों को चरितार्थ करने की कोशिश करता है- यत्र नार्यस्तु पूज्यन्ते, रमन्ते तत्र देवता। वर्ष में चार नवरात्र वैश्व, आषाढ, आश्विन और माघ महीने की शुक्ल प्रतिपदा से नवमी तक होते हैं। परंतु पश्चिमी में वैश्व और आश्विन के नवरात्र ही मुख्य माने जाते हैं। इनमें भी देवी भक्त आश्विन के नवरात्र अधिक करते हैं। देवी माँ के भक्त नव दिन माँ के अलग-अलग रूपों की पूजा करते हैं- शैलपुत्री- पहाड़ों की पुत्री, बह्मचारिणी- बह्मचारिणी, चंद्रघंटा - चंद्र की तरह चमकने वाली, कृष्णाण्डा- पूरा जगत जिनके पैरों में हैं, स्कंदमाता- कार्तिक स्वामी की माता, कात्यायनी- कात्यायन आश्रम में जन्मी, कालरात्रि - काल का नाश करने वाली, महागौरी- सफेद रंग वाली माँ, सिद्धिदात्री - सर्व सिद्धि देने वाली। क्या है शारदीय नवरात्र के पीछे धार्मिक मान्यताएँ?

नवरात्र का प्रचलन सनातन काल से है। परन्तु माना जाता है कि सर्वप्रथम श्री राम चंद्र जी (नवकंज लोचन कंज मुख....) ने इस शारदीय नवरात्र पूजा का प्रारम्भ समुद्र तट पर किया था और उसके बाद दसवें दिन लंका विजय के लिए प्रस्थान किया और विजय प्राप्त की। इसी प्रकार दूसरी कथा " देवी माँ तथा महिषासुर " संग्राम की है यह संग्राम नव दिन चला और अंत में महिषासुर वध कर माँ " महिषासुर मर्दिनी " कहलायी। किन्तु स्थानों पर विशेष रूप से मनाई जाती है नवरात्र ?

नवरात्र भारत के विभिन्न भागों में भिन्न-भिन्न ढंग से मनाई जाती है। "गुजरात " में इस त्योहार को बड़े पैमाने पर मनाया जाता है। गुजरात में नवरात्र समारोह में " डंडिया" और "गरबा" का प्रमुख स्थान होता है। पश्चिम बंगाल में बंगालियों के मुख्य त्योहारों में दुर्गा पूजा है, वहीं नौवें दक्षिण में मैसूर के राजसी कार्टर को पूरे महीने प्रकाशित करके मनाया जाता है।

51 शक्ति पीठ पर नवरात्र में विशेष पूजन कार्य होता है। क्या है नवरात्र का वैज्ञानिक आधार ? वैज्ञानिक तथा ज्योतिषी बताते हैं कि पृथ्वी द्वारा सूर्य की परिक्रमा काल में एक साल की चार सन्धियों में जिनमें से मार्च व सितम्बर माह में पड़ने वाली गोल सन्धियों में साल के दो मुख्य नवरात्र पड़ते हैं। यह समय ऋतु परिवर्तन का होता है और रोगाणु प्रभावी होते हैं। अतः इस समय स्वस्थ रहने के लिए और तन- मन को शुद्ध करने की प्रक्रिया का नाम ही " नवरात्र " है।

By- Saransh Vashishtha  
Hindi (H.) III Y



## CORRUPTION - Is It Inevitable ??

There is no definition of corruption which is accepted universally, but in general it can be said to mean the abuse of bestowed power or position seeking personal benefits. It umbrellas many activities including bribery and embezzlement. The word "corrupt", when used as an adjective, literally means "utterly broken" which signifies the complete breakdown of the system within which the person is working.

Nowadays, every news channel and newspaper comes with headlines that cover news of offices being raided and more officials being caught taking bribes, be it in a municipality office or among politicians, corruption is prevalent everywhere from the lowest rungs of the hierarchy to the highest ones. Corruption alone is powerful enough to stagnate our nation's growth and hinder the tag of a developing country. Today, its tentacles have spread far and wide and have penetrated so deep inside our systems of work that it has become a common place part of our lives. The issue has been in notice for quite long but, unfortunately, it has not cropped up any remedial measure, be it Aam Aadmi Party's making a political issue in the elections or Bhartiya Janta Party's working diligently towards amending laws against Black Money and making them stricter. None of them could ultimately give a refined and efficient version of it. It would also be unjust to blame the government entirely for it, because we as individuals also need to work sincerely towards removing this malice from the country. Nowadays, media is playing an active role in bringing the corrupt officials to face the camera in front of the public, and that uncovers their numerous murky dealings. The sting operatives are a step in the right direction. But there is a need for everyone to work towards a nation free of corruption. We should encourage a healthy national and moral mindset that does not allow it at any level.

To deal with this problem only Government policies and raising one's morality alone will not suffice. Both of these need to be strategized in the most efficient way to tackle it. A single individual or a small group would stand quite insignificant in eradicating widespread corruption. It has to be a collective effort, and that too on a large scale. Only then we could possibly dream of getting rid of it from the roots.

By- Nidhi Jain  
English (H.) II Y





## From the lips of a maestro...SAPTAK CHATTERJEE

"... don't just memorise notes; memorise the feeling of playing them" says Saptak Chatterjee, one of the most popular Hindustani classical singers of the young blood, utmost talented, passionate singer of the Hansraj College. He is only 20 years young and has won over 80 awards till date. His dedication to sing better and best following every dawn seems to be an inspiration for everyone. So, in order to get some encouragement and valuable advice for the upcoming, wishing to be singers, here is a small interview with the maestro.

**Q.** Hello Saptak! You have now gone famous and have successfully established your name on the stepping stones in the field. So, who was your first inspiration or idol that inspired you to start singing?

**Ans.** My first and biggest inspiration is my father, who is also my guru Shri Sarathi Chatterjee. I also draw inspiration from Pandit Rajan Sajan Mishra, Pandit Arjun Chakravarti and my grand father Shri Arun Kumar Chatterjee. I also like western artist like Steven Wilson and Pink Floyd.



**Q.** What keeps you motivated to keep practicing singing?

**Ans.** Practicing helps me develop my skills. My passion and desire to learn more, help me understand music in a better way, help me feel music in a better way. Music is what I want to take as my career that is one thing that motivates me .So I have to concentrate and develop my skills in order to be successful in life...

**Q.** What is your goal in life? What role has your family played to develop your hobby into career?

**Ans.** My goal in life is to be a musician, to spread the wings of classical music, spread the knowledge that I have received from elders! My aim is to take music to a level where people forget everything else and just enjoy the music, its notes and melody.

**Q.** Nice, so, how old were you when you sang your first song and what was it?

**Ans.** I sang my first song when I was 4, my mother taught me a bangali song and luckily I got 1st prize in the competition.

**Q.** How does it feel to get so many awards at such a young age?

**Ans.** I don't really think how many awards I have got really matters. At the end of the day, as you know where you stand, how good or bad you are, how technically you sound are, how much grip you have on your art is what matters. Maybe 6 years down the line, these awards won't matter as hopefully I would have achieved something more. At the end of day training, raiyaz, dedication and how honest you are to your art, is what matters the most. One's focus needs to be absolute and absolutely not diverted.

**Q.** Who was the first one to recognize your talent?

**Ans.** My family was the first one to discover that music was in my heart and ever since they had recognized it, they have always tried to develop it further. They are helping me make myself a better musician.

**Q.** Would you like to make singing as your profession or would like to let it remain your passion?

**Ans.** Singing is my passion .I'm trying my level best to convert my passion into my profession.

**Q.** Any message for your Hansraj juniors? Something you have learnt in these years which is important for juniors to follow in their college life?

**Ans.** It is extremely important to join a society, apart from the academics. You get to learn a lot of other things in the society .Each and every member of society teaches you a lot they help you to grow as a person in totality.

Thank you so much Saptak for sharing your views and proving a direction to work on by our upcoming juniors. May you get a lot of success in your life.

**Q.** Great! what you love the most about singing?

**Ans.** I love singing because according to me, it is the universal language to express one's emotion. Each and every or any emotion that a human heart can feel, whether it is love, sorrow, happiness can be expressed using music. One can narrate an event, poem, spin a story with it.

**Q.** What's your band name? What all events you guys have been a part of?

**Ans.** Well, my band's name is 'The Hansraj Projekt'. We participate in all DU competition, IIT Kanpur, IIT Bombay, IIT Delhi etc. My band has been fortunate enough that we have won almost all of them. We have been lucky enough to open the stage for Bollywood celebrities like Mohit chauhan, Farhan Akhtar and privilege of sharing the stage with raghu dikshit, etc.

**Q.** Wow! That is a great achievement. So, when we are talking about music and singing, you prefer English songs or Hindi songs and why?

**Ans.** Language doesn't matter to me as long as I can feel the tune, vibe, melody, be it Hindi, Urdu, English, Bengali, Spanish etc. Music needs to be soothing to the ears.

**Q.** What studying in Hansraj has give you? What's the best thing about Hansraj?

**Ans.** Studying in Hansraj made me meet my fellow music society members without whom I would have no knowledge about western music .They have helped me grow as a musician a lot .The best thing about Hansraj is its ECA, its massive cultural societies where students are very dedicated.

## From Astronaut to Shooter-Meenakshi Sheoran

Meenakshi Sheoran, an alumni of Army Public School and presently a third year undergraduate majoring in English literature at Hansraj College, Delhi University has seen it all in the first 19 years of her life. From being a common school going girl to becoming a national level shooter, her life has been quite like a roller coaster ride. She currently possesses 4th position in All India Junior Ranking and is aiming for a lot more in life. Here is a small talk we had with her:

**Q.** It is appreciable and inspiring to see you faring so well in your life at such an early age. How did it all start?

**Ans.** I was an ordinary school going girl till class 12th, and wanted to become an astronaut. But it was only in class 12th that I realized what I actually wanted from my life. I started practicing at the army shooting range and eventually life happened to me and took its course. Further, you always have parents and seniors who constantly guide and support you to achieve more in life.

**Q.** That is amazing! So what has been your biggest achievement till date? It is undoubtedly when I had bagged my 4th ranking in the All India Junior Ranking. I was on 95th rank and achieving the 4th one at one go was truly a tremendous experience.

**Q.** And what about your first achievement?

**Ans.** Well frankly speaking, I consider taking up shooting was in itself the first achievement for me. It was the first time in my life that I knew what I want from it and I started taking it very seriously after that. Talking materialistically, I had bagged a silver medal in the state championship, which was my first achievement as a shooter.

**Q.** Being a girl, was it an easy thing to become a shooter in the first place?

**Ans.** Well, I think gender discrimination by near and dear ones has almost never happened with me. I have always had my parents and coaches me supporting me at each level. In fact, I believe that their inclination towards not being biased against females is precisely what has landed me here, and I am grateful to them for that. Further, I feel that as long as you are focused and you know what you want from life, and you really, really want it, things like your sex do not matter. No sex is innately inferior to the other.

**Q.** What are your future prospects?

**Ans.** I have the Asian Championship coming in November, so I am just gearing up for that. Further, all I want from life is to achieve a better position each day and become a better human being. I want to make my country proud and I am working on this dream every day. I would also like to be an inspiration to the girls who wish to come out of their shells and do what they want in their lives. We all have that feeling that we must give our best, no matter what. After all, who doesn't want a satisfactory life in the end.

## HRC at London School of Economics

Several memories floated across my mind when I was asked to write an article on my experience in LSE. I must say that it was a time of my life. I had filled the application in the month of February, and one day the confirmation letter showed up on my doorstep. In no time, I left for London. Landing there, I found myself among students from all nationalities. And it was a pleasure to meet them, greet them and learn from them. The course I opted for was Judgment and Decision Making for Management. It was a three weeks intense course. From the first day itself it proved to be very interesting and enriching. The whole course was divided into two sections, a mid term exam after the first one and the final paper at the end of the second session. I took both the tests and had managed to score an A+. The faculty, the library, the atmosphere in the school, all of it was even better than how I had desired it to be. Also LSE had organized various social events for its students, which gave us that streak of fun and relaxation amidst our busy schedule. Being on your own in London for three weeks is an amazing opportunity to get familiarized with London. The weather was an icing on the cake to my stay there. The best part of the whole program was that we were all so carefree as everything fell into the right place on its own. We didn't have to worry about anything and thus had a lot of fun. And amidst all that I was too overwhelmed to realize I was going through what would crystallize into memories for life. ☺

In the end I would like to say that the experience, the exposure, the friends, the memories, and that independence made my summer 2015, the best summer of my life.



KAMAKSHI AGARWAL, B.COM (H), II Y

## Hansraj's Ball at BITS Pilani

BITS PILANI BISM

(BITS open sport meet)

2015, Hansraj team Captain Mohit futela followed by Bharat Yadav, Ajay Dabas, Rahul Jakhar, Kunal Raghav, Girik yadav, Sahil Delu, Apoorv Aggarwal, Sahil Singh and Mohit Bugalia reached at BITS campus



on 18th September morning. The first match of league was with St. Xaviers on 19th September evening. They won that match by score of 54-40. Second match of league was with Loyala College Chennai final score was 69- 47 in favor of Hansraj College. Then last match of league was against Jamia Milia Islamia final score was 58-42. After being first in the pool matches, team qualified for quarter finals which was played

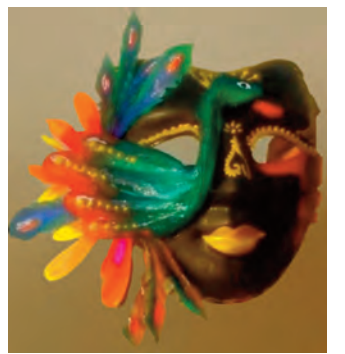
against LNIUPE Gwalior and beat them by score of 56-43 and qualified for semi finals which held on 22 September against BKBIT Pilani in which the final score was 67-42. The final match was against Shri Ram College of Commerce on 22 September evening. During match Kunal Raghav's ankle got twisted and Mohit Phutela got injured but still hansraj team performed well but as it wasn't their day.

OLYMPICS

The 13th Asian Shooting Championship will be held soon in Kuwait. Leaving at November 01, Tushar Jain, Meenakshi Sheoran and Prerna Gupta from HRC would participate in this quadrennial event. This is the last match before the Olympics through which the shooters could obtain a quota for the country.

## कलाकृति :The Fine arts Society@IITD

The Mask Design competition 'Masquerade, Rendezvous' was held on 19th of October, Monday in IIT Delhi. Two teams from the fine arts society 'Kalakriti' of Hansraj College participated, one of the team Sagarika Rao (I year) and Avishi Goyal (I year) won the first prize. They had to design a mask having some thought-provoking theme behind it. The competition consisted of prelim round, wherein participants were supposed to make the idea on paper with 3D effects. From this



round 20 teams were selected among 65 teams. They made a 3D peacock out of paper mache and cut the feathers out of another sheet of paper which deteriorated towards the end basically trying to show how resources are dwindling as well as degrading at the rate of extinction. Blood dripping from second eye stating how our society is moving towards self-destruction. The jury loved their piece and awarded Rs.7000 to the team along with certificates of appreciation.

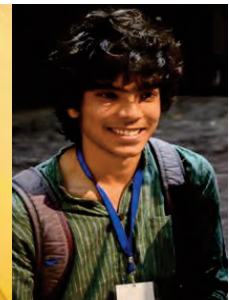
## DU Squash team selection, Three HANSARIANS



Junaid Muzaffar



Siddharth Choudhary



Harshit Muchal

St. Stephen's College organized the Delhi University Squash team selection on October 16, 2015. It was managed by Mr. Chakraborty, the HOD of Physical Education in the college. 12 players could participate from all over DU, out of which 6 were to be selected. Hansraj feels proud that out of these 6 students, 3 were from Hansraj College. Harshit Muchal (B.Com I year), Junaid Muzaffar (I year), and Siddharth Choudhary (B.A. Eng. hons. I year) were the three students.

Junaid Muzaffar and Siddharth Choudhary appeared in the Junior National tournament held on October 24, 2015 in Kolkata.

## Shivani ranked 3rd in NAEST-2015

Indian Association of Physics Teachers (IAPT) aims to upgrade the quality of the teaching of physics at professional levels. Anveshika is an IAPT initiative which organizes the event "Anveshika-NAEST" annually in different regions of India so that students and teachers can learn experiment-based Physics and try out their own ideas. It is a competition which test experimental skills . There were four rounds: Screening, Prelim, Semi-Final and Final. Screening and Prelim exams were conducted on 21st and 28th of August, respectively at Archarya Narendra College. Shivani cleared both exams and ranked 1st in Delhi region. The participants who cleared former exams with 1st rank were invited to Kanpur for the next two rounds. In total, there were 17 participants from all over India. Shivani cleared the Semi-Final on 30th September and the final round was conducted on October 1, 2015. The results came out at evening and she ranked 3rd. Here is Shivani's Experience:-



Shivani Grover

**Q1.** You have scored 3rd rank in Anveshika NAEST, and you represented college and Delhi region in semi-final and final, would you like share your experience?

**Ans.** Yes, it was indeed an amazing experience. I was given accommodation in IIT Kanpur which is again a prestigious institute for physicists. Frankly speaking, I never thought that I would come so far in this competition and to secure 3rd position was something I had never expected. We were supposed to perform 3 experiments in the semifinals and the finals, each taking not more than 45 minutes. Also, we had to derive many important results out of that. So, overall it was a test to check the experimental skills of a student. The main motive of this competition was to make students understand the fact that we can derive the most important results of physics from the scrap.

**Q2.** You met Dr. H.C. Verma, who is one of the most distinguished professors in India, what did you learnt from him?

**Ans.** I was feeling lucky and honored to meet Dr. H.C. Verma. He sounded very modest and was polite with all the students. He was helping all of us throughout the competition. He helped us in analyzing the data we collected through the experiment. It was more or less a learning session going on under his supervision.

**Q3.** The Anveshika test is about to test experimental skills of students and you scored 3rd rank in India. Would you like to tell others about what the most important skills one must have while performing experiments and analyzing scientific data are?

**Ans.** I believe that all you need is to analyze the things around you. What I have learned through this competition is that a good experimentalist should be very precise about what s/he needs to determine through the experiment. The method to be followed should be one's own. During the competition , my mentor told me that if I wanted to become a good experimentalist than I should follow the first principle approach, which actually meant that one should be creative enough to design his own way of doing something. Otherwise if s/he follows somebody else's method, then they have to quote it as well. Also, according to me experimenters should be always ready to face big challenges.



## Meet the Freshers' ...

**Jina Haobam:** I am proud to be a Hansarian because everything is so amazing specially LP where I can spend the whole day - Life Science.

**Gaurav Rathore:** I believe in "Expect the Unexpected" and so therefore when I was announced Mr. Fresher both amusement and honour came along with it. - Life Science.

**Kriti Mehra:** There is nothing to be called discrimination in college on account that I am from Hindi Department. - Hindi.

**Abhishek Kujur:** My experience in Hansraj College has been very good. I've become Mr. Fresher of my department, I got selected in the Music Society which I always wanted to get in and I have a good friend circle. - Hindi

**Mansi Luthra:** The Hansraj College has transformed a subdued person into an independent, confident and fun loving freak. Now, I look forward to spend time with my friends, attending classes and music practices; all with smiles and giggles. - B.Com

**Sidhant Sumant:** Hansraj college gave me many new experiences and the best has to be the dance round in the Freshers' party as I danced on stage for the first time. - B. Com.

**Drishiti Sharma:** The experience in Hansraj College has been overwhelming. This college is all of levelling you up as a person and polishing your skills. I would give my everything to change nothing in my life right now. - English

**Mepi Timba:** Coming to Hansraj College was special as I came along with lots of hopes and dreams. My College life has taught me great life lessons through good and bad experiences which has made me stronger than before. - Botany

**Reyash kadiyen:** The experience in college has been too good to be true, a journey I didn't expect. I have got some amazing friends here who are full of same madness like me. - Mathematics

**Dharna Saini:** For me to study in Hansraj College is like a dream coming true! All the seniors and teachers are very caring and helpful. Its great to be here!!! - Mathematics

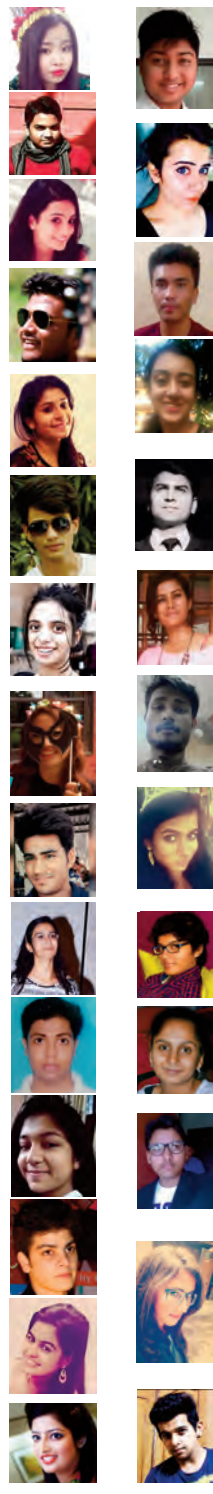
**Vikash Prajapati:** I always feel proud as a part of Hansraj College. I enjoyed my department Fresher's, college Fresher's and my academics as well; I will never forget all these things. - Physics

**Pooja Aggarwal:** I feel lucky to be a part of Hansraj College. Teachers and seniors are very helpful and supporting. I enjoy every programme in the college like Fresher's party. This is the golden time of my life. - Physics

**Yashu Jain:** My till date experience in Hansraj has been memorable and exciting. In short I am proud to be a Hansarian. - Chemistry

**Harshita khurana:** The Hansraj College for me stands for cheerful environment, happening crowd and sophisticated academics. Proud to be a part of Hansraj!! - Chemistry

**Gopika Kalra:** I am very glad to be a part of such a successful institution, Hansraj College. Whether it be the classes, the canteen or the field, teachers are wonderful and seniors are very helpful. - History



**Shoubhik Sen:** The helpful and great faculty as well as the warm, accepting and path breaking seniors, the ambience, environment and LP all are making my college life memorable. Proud and happy to be a Hansarian. - History

**Latika Bhardwaj:** HRC being one of the best colleges of DU have given the platform to show my potential in all fields. My faculty members and seniors stand by me at every step to accomplish all my endeavors. My college has become an integral part of my life. - Zoology.

**Stanzin Phunchok:** Peaceful as heaven, calm as winter, sweet as summer, birth place of brilliance; it is Hansraj; it is Hansraj; it is Hansraj. - Zoology

**Tanya Madan:** It has been just three months into this wonderful yet crazy place called Hansraj College, I have realized that each day has a plethora of opportunities to offer, now either you grasp gem or stand aside or let them go. - Economics

**Ayush Khosla:** It has been a great experience till now from being completely strange to people and the whole college system to making really close friends and getting to like college a bit more each day... - Economics

**Shruti Chauhan:** My department Freshers' party was the most amazing part of my experience in Hansraj College. Everything from food, talent face off round to cake was awesome. Our teachers are very supporting. - Anthropology

**Amit Yadav:** I am very elated to say that within last two months in my graduation I have experienced lot of things and I have had a great fun with my friends. All I can say now is 'Thank You Hansraj College'. - Electronics

**Divyanshi Saxena:** Hansraj has provided me with all the opportunities I needed to become confident from class environment to morning trips of Pixel Society to evening shift of Kalakriti landscape paintings and now Ms. Freshers' title is like a cherry on the cake. - Electronics

**Shashank:** After coming to Hansraj, I found it to be a completely different experience. It almost feels like a giant Big Boss House. - Geology

**Pratibha:** 'Hansraj' a new life. New start full of fun, enjoyment and opportunities. Discipline an integral part with a great freedom for exposure. - Geology

**Lakhan:** I am very fortunate to be part of HansRaj college with very supportive seniors. professors' dedication towards teaching and helpful nature of seniors makes such an environment in one can achieve full of one's potential. proud to be part of HansRaj college. -Hindi.

**Ankita:** I had an awesome experience being an Hansarian. From the journey of my first day in college till now it has been an eye opener, learning and fabulous experience. It has accomplished all the dreams. College is a platform to outshine yourself, rediscover your worth and Hansraj has provided me with all that. Truly, a mind blowing experience. - Physical Science.

**Saksham:** Best college of du that is Hansraj college which gave me many memorable and happening experience like i became mr fresher and then Mr. popstar. Its not just a college its a platform where everyone gets an equal opportunity to show his/her talent - Physics

## Hard Work and Success

The academics is the thing that some of us cannot get enough of, while others just dread to think of it. However, hate it or like it academics is something that all of us have to manage. We are lucky to be in an institute which believe in making the courses interesting and challenging at the same time. Interestingly almost all seniors unanimously agree that not giving the due importance to academics early on is the most glaring mistakes of fresher's.

Anthropology is a deceptively simple subject. All that one needs to do is understand the concepts holistically. Make a schedule, go thoroughly through the syllabus. Arrange readings and notes according to syllabus and try to make connections between the topics. Understanding it like a story is what is key. Use examples from your own life and try to make a connect. - **Sarthak** (Anthropology)

"My mantra is Read, Write and Think. It is very helpful along with practicing previous year questions. Also going through the whole syllabus at least once gives you confidence and you score well." - **Rakesh** (Chemistry)

Keep your spirits high, be confident this is the time for perseverance... preserve and maintain sincerity in everything you do. Surely, you will come out with flying colors. - **Goutam Sharma** (Physics)

हंसराज महाविद्यालय के हिन्दी विभाग में दखिला पा लेना ही, यही आपके प्रतिभा को प्रदर्शित करता है, विषयानुसार नोट्स बनाकर तथा लेखन शैली को ध्यान में रखकर, नियमानुसार कक्षा में उपस्थित बनाते हुए एवं पूर्व वर्ष के प्रश्न पत्रों को हल करके आप अच्छे अंक प्राप्त कर सकते हैं। - **आकाश कुमार** (हिन्दी दिवसीय वर्ष)

Go through the concept and understand it by heart as there is no time to even recapitulate in the exam and don't miss classes because if we study in class then there is no need to panic during exams. - **Gunjan Bareja** (Life Science)

Don't think too much, and have focus on your study honestly, results will be better. So, keep yourself calm, ease your pressure and just focus on your study. Then, your examination part of life will be more interesting. - **Amresh Kumar** (Electronics)

Try to read point to point and cover the syllabus and check the exam structure and try to write answers accordingly so that they look attractive. Also, practice writing the paper in given time. - **Manoj Gupta** (History)

"Thoughts of young writers have more impact on the society because when they think mature for their age, then certainly they are the change makers or at least have the capability to bring some change", says a young writer Sirjandeep Kaur Ubba who released her debut fiction novel, 'The Triumph'. The fictional text has been released in Chandigarh and Bombay where it has managed to sell more than 4000 copies. Not concerned much with the associated profits, Sirjandeep wants the novel to reach every household. "I want to express this to all the girls that keeping quiet is no way to deal. You need to raise voice because if you choose not to speak today, then you can never speak to choose", she adds.

## Let's talk with Sirjan Kaur Ubba

**Q.** Writing is your passion or profession?  
**Ans.** Sirjandeep says writing has been her passion always. She would love if it would turn into her profession.

**Q.** Can you tell our readers what is TRIUMPH all about?  
**Ans.** TRIUMPH is about a girl who faces many problems since her birth and how she copes up these issues. The book outlines Ibadat's perseverance and tenacity to battle out her rightful place in the society.

**Q.** What motivated you to write such a great novel?  
**Ans.** She says "Women are commoditized everyday around us. I have been reading about the much boosted rape culture in our country for a long time now but the shock associated with Damini Gang Rape Case shook me from within and filled me with courage to give birth to Ibadat and write her story of triumph. I locked myself in my room and started penning my emotions which took form of Ibadat"

**Q.** What was your family's reaction when you showed them your work?  
**Ans.** My story brought tears in my father's eyes and made him emotional. He was very impressed with my writings.

**Q.** Why you named it TRIUMPH?  
**Ans.** Novel depicts the victory of a girl who overcomes all problems and obstacles that come her way thus I named it TRIUMPH. "I wanted to express this to all the girls that keeping quiet is no way to deal. You need to raise voice because if you choose not to speak today, then you can never speak to choose".

The Triumph is a fiction novel depicting the reality of the world. It is a story of a girl who fought against all odds and handled all obstacles. The name of the character is Ibadat, who is abandoned right at her birth and her grandmother brings her up. When she grew up, she decided to go back to her parents and win back their love. Her own kin and kith treat her with scorn and cruelty. The writer 'Sirjandeep' explains to the readers how important it is for a girl to fight for her rights, to have access



a story, a suspense thriller novel. Hopefully it will be released next year.

**Q.** How was your journey in Hansraj?  
**Ans.** Three years in this college have been some of the best years of my life. The college has changed me as a person. The kind of exposure that it provides would definitely help me face the world with confidence.

**Q.** Best thing about Hansraj!! Or one thing you would badly miss after a year?  
**Ans.** People make a place good and cheerful. So I will miss the people of Hansraj the most.

**Q.** Message to juniors?  
**Ans.** Join as many societies do as many internships as you can. Enjoy your college life it's a golden period of your life. Spread your wings.

to education, to work and not just sit at home to cook. Life has given human beings opportunities and so a girl has every right to have access to them. Ibadat, ultimately wins in the end and proves this world that a girl is no less, a girl can achieve whatever she wants to provided

**Q.** How difficult it was to write a novel? Did u get support from family and College?  
**Ans.** It was not really difficult to write the novel. Writing is in my genes. My father and grandmother both are writers. I was just penning my thoughts.

**Q.** How do you manage studies with novel writing? Are you writing something now?  
**Ans.** Managing studies with your hobby is not at all difficult. You just need passion to do what you want. Started writing on my second novel the story of a secret. It would also deal with a social issue. Secret telling

she has the will power to do so. It is very important for girls to become stronger, bolder and smarter. Nobody should be able to take her advantage. She has the right to education, to wear whatever she is comfortable in, keeping the atmosphere and environment around her in mind. The only thing she should not do is "lose hope" because when you lose hope, then there remains no question of women empowerment. One must break free the shackles of slavery and come out victorious.

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continuing from pg.1.[3] Then the second round of the talent hunt commenced in which all the participants had to show their talent. Some of the contestants danced while others rejoiced in singing songs. It was an amazing display of talent and all of them performed really well. Now the best part of the party began as the world renowned

DJ 'ACE AXE' began playing his mind blowing remixes. Beats, mashups and the dancing crowd the scene was mesmerizing. Everyone enjoyed to the fullest. After the mind-blowing DJ session it was the time to announce the winners for various titles. All the contestants had their fingers crossed as the President of the Student

Union took over the hosts to announce the winners for various titles including Mr. and Miss Fresher's. Members of the student union gave gift hampers to the winners. Aryan of math's department bagged the title for Mr. Fresher's and Khelena Bachaspati got the title of Miss Fresher's. This event was worthy sunshine.

[1] continuing from pg.1 ... students to commute from one place to another while taking care of the obstacles that come in their way. In addition to the feature of obstacle avoidance, the device would also help the students to navigate from one place to another by giving them directions in the audio form. Such new creative ideas not only help to develop meaningful linkage of innovative minds with various segments of society, but also render great help to the needful and ultimately helps people have a better life. These innovation projects will be displayed at the cultural fest of Delhi University 'Antardhwani '16. Selected Hansraj Innovation Projects:  
1. **HRC 301-** "Masses of charmonium states in isospin asymmetric strange hadronic matter and their implications in heavy ion collision experiments" - Dr Sushil Kumar, Dr Pradeep Kumar, Dr Mona Bhatnagar, Dr Bijendra Singh  
2. **HRC 302 -** "Development of mobile based application for the real time localization and identification

of selected flora in University of Delhi" - Dr Romila Rawat Bisht, Dr V.S. Sajwan, Dr Shivani Aggarwal, Dr Shalini Kaushik Love  
3. **HRC 303 -** "The extraction and utilization of natural pigments in cosmetics" - Dr Vijay Rani Rajpal, Dr Ambika, Dr Anjali Saxena  
4. **HRC 304 -** "Study and security analysis of smart cards" - Dr Arvind, Brij Mohan, Aditi  
5. **HRC 305 -** "Nutritional profiling and its correlation with functional respiratory capacity in soldiers/volunteers" - Dr Kaveri Chakrabarty, Dr Dinesh Kumar Gautam, Dr Satyakam Guha  
6. **HRC 306 -** "Utilization of Delhi Garden waste for renewable and sustainable energy production" - Dr Anand Sonkar, Dr Manoj Kumar, Dr Amit Rawat, Dr Amar Kumar  
7. **HRC 307 -** "Device for Uniquely abled (DUA)" - Dr Harmeet Kaur, Dr Baljeet Kaur, Mr Dibyajyoti Das  
8. **HRC 308 -** "Engineered biocompatible organic nanoarchitectures: A new paradigm for disinfectants" - Dr Shweta Rastogi, Dr Brijesh Rathi, Dr Himanshu, Dr Pooja Arora

9. **HRC 309 -** "Development of visible light activated photocatalyst for water treatment" - Dr Pratibha Tewari, Dr Maya Verma, Dr Hema Chutani  
10. **HRC 310 -** "Emergency management solutions: Design of solar based ecofriendly, efficient and portable lighting /Power water conditioning and thermo-electric solutions" - Dr Amit Sehgal, Dr Sukhbinder Singh Rait, Dr Namrata Soni  
11. **HRC 311 -** "Study of germicidal properties of fumes generated in havan (Yagya) in order to assess potentiality of havan in curing some infections and air borne diseases" - Dr Monika Kaul, Dr Ishwar Singh  
12. **HRC 312 -** "Synthesis of drug doped silica nanoparticles for bioimaging and therapeutic applications" - Dr Chetna Gupta, Dr Parul Pant, Dr Farhat Jahan  
13. **HRC 313 -** "Critical and scientific analysis on use of alternative medicines with practical approach and case studies" - Dr Lokesh Chandra Mishra, Dr Archana Singh, Dr Jyoti Bhola

these bags to keep the garbage in. The team's first target was to clean the area around the college's main gate. It later proceeded by working in the college departments, thus successfully covering the entire college. During the course of action, the students were honored by the participation of the Principal of the college, Dr. Rama, in the drive. Being a hard core environmentalist, since the very day she joined the college, she

has been taking significant measures in keeping the college clean. The event ended with the distribution of 'Thank You' cards to the cleanliness staff of the college, as the drive had already made its members aware of the pains taken by the cleanliness staff of the college to maintain a sterile atmosphere in the college campus. The event pulled off successfully, ending up in a sense of cheer and smiles across the college.

[2] continuing from pg.1 ... The event began with Dr. Monika Kaul Madam's speech, who is the convener of the Haritima society. She briefed the audience about the duties and roles of a responsible citizen, in keeping their environment clean. Her motivating words boosted enthusiasm into the audience and the drive began with gusto. Each and every member of the drive was then provided with hand gloves and poly-



## INDIAN SUPER LEAGUE

After a yearlong wait, the moment is finally upon us. The Indian Super League heralded itself in spectacular fashion. With the first season being a roaring success, we can safely presume that the wonders won't cease in the next installment as well. With blitzkrieg marketing and a dazzling display of world class football, the ISL has captured the imagination of football enthusiasts all over the country. That being said, the resurrection of Indian football has been in the waiting for far too long, fraught with years of neglect, the once famed clubs of India like Mohun Bagan, East Bengal and Dempo now stare at bankruptcy. But

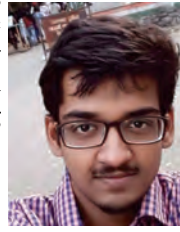
the renewed interest in football might just be the shot in the arm that the soccer community in India needs.



Long ridiculed as the sleeping giants, Indian footballers now have the unprecedented opportunity of sharing the field with stalwarts of the game. From the graceful Del Piero, the machiavellian Elano to the powerful Roberto Carlos; various expo-

nents of soccer now grace the stage of Indian football. Despite the invaluable international exposure, the finesse and skill of Indian players leave much to be desired. It is imperative to develop a proper sporting infrastructure to tackle this problem at the grass root level. Considering the staggering response the first edition of ISL generated, an investment in football coaching facilities in the country will surely be greeted with overwhelming enthusiasm.

By -Subhomay Saha  
Geology (H.) III Y



## Phone-in Counselling Launched!

The Mind Body Centre (MBC) is a centre inaugurated with the objective of promoting wellness of women students at the University of Delhi with the motto "Health Beyond Healthcare". The MBC offers healthcare facilities primarily to the girl students, but with growing popularity there has been a demand for its expansion, and therefore it has recently started reaching out to all students of the University through a free Telephonic and Online Counselling Service (Email). The MBC offers three services - Counselling, Homeopathy and Naturopathy - geared towards the goal of holistic healing from Monday to Saturday from 10:00 am to 6:00 pm with only one-time registration.

For Phone-in Counselling toll free helpline number 1800-3000-7303 using any mobile phone or landline facility. This helpline offers two kinds of services:

### Active Call Facility:

This facility is available only on:  
**Monday, Wednesday and Friday**  
3:00 pm to 5:00 pm

Upon calling this helpline number, your call will be attended to immediately.

### Message Recording Facility:

The Message Recording facility is available round the clock (24x7) on the toll free helpline number 1800-3000-4554.

You could leave a message which will be attended to within 48 hours through either an email or a phone call. Girls students can avail face-to-face counselling service at the DUWA Mind-Body Centre.

You can request for an appointment with our counsellor either through the email service (contact@mbc.du.ac.in) or by calling in on the DUWA phone number 011-27667742 or 27666027.

You will be given an appointment between Monday-Saturday (10:00 am to 6:00 pm) as per availability of the counsellor.



Dial 1800-3000-7303



Write at counselling@mbc.du.ac.in



Meet us

## Opportunity Column

Hansraj College is planning to organise the following short term course for making students employable along with their regular courses.

The courses offered:

1. Computer Education course (10 Days)
2. Online Vocational IT course (3 Months)
3. Solar Energy Training course (2 Months)
4. Media course (1 Month to 6 Months)
5. Wellness and Health course (3 Months)
6. Self Defence course (15 Months)
7. Senior Person Care course (3 Months)
8. Vermi Compost course (1 Week)
9. Training for Insurance Sector (3 Months)
10. Training for Tourism, Travel and Hospitality Management (3 Months)
11. Training in Bio Base Technology (45 Days)
12. Translation course (English-Hindi)(French-English)(6 Months)

To Register: Mail at principal\_hrc@yahoo.com (Full Name, Department, Class, Contact NO., Email Id, Choice OF Day (Sat./Sun. Or both), Convenient Time and Course)

### Commerce Internships

1. Porter: online marketplace for logistics.
2. Butterflies: NGO, content writers.
3. Seherr: virtual non-profit endeavour, Campus Ambassadors.
4. The Souled Store: online merchandising company, Marketing Interns.
5. GharPeTutor.com: online tuition, online tutors.
6. Hippo Innovations Private Limited, Intern-Customer.
7. Josh Talks, Content writer and Film Maker.
8. Routofy: changing travel search, Market Research Analyst.
9. StudentEmi: provide instant credit to students to buy products online, Marketing Interns.
10. Cityfurnish.com: Pay-per-use service in the furniture industry, business developing intern.

### Science Internships

1. Visiting/Summer Student Program in Theoretical Computer Science, IMSc Chennai. Application deadlines: February 15 for the next May-July summer period, April 15 for the August-November period and October 15 for the January-April period.
2. Summer Research Fellowship Programme 2016 (SRFP 2016) - Last date - 30th November, 2016
3. Software Engineering Intern, Summer 2016 - North America Last date November 30, 2015 at 11:59pm PST.
4. NASA LPI Summer Intern Program in Planetary Science Last Date: January 8, 2016.
5. Visiting Students Program Raman Research Institute, Bangalore. Last Date - Before January 2015.
6. Shell Ideas 360 Competition Last Date for submission of stage ideas is December 15, 2015 this year.
7. Viterbi-India Program - Last date - November 15, 2015.

### Vision Society Team:

Society Convener: Mr. Brij Mohan, Department of Mathematics.

1. Vishnu Modi - Physics (H.) III Y.
2. Mohit Khurana - Physics (H.) III Y.
3. Aditya Gupta - B.Tech Computer Science III Y.
4. Shubham Kumar - B.Tech Computer Science III Y.
5. Gopal Vishwakarma - B.Tech Computer Science III Y.
6. Manoj Gupta - History (H.) III Y.
7. Harshit Saxena - English (H.) III Y.
8. Pooja Kaushik - English (H.) III Y.
9. Nidhi Jain - English (H.) II Y.
10. Pragaya Thakur - English (H.) II Y.
11. Tabinda Jamal - English (H.) II Y.
12. Payal Rauniyar - B.Com (H.) I Y.
13. Ayushi Jain - B.Com (H.) I Y.
14. Harshita Gupta - B.Com (H.) I Y.
15. Tanuja Chandrika - Zoology (H.) I Y.

### PICS CREDIT:

1. Pixels - The Photographer Society.
2. Shivam Jangara - B.Com (H.) II Y.
3. Amba Studio.
4. Vineet Studio.



## कर्मण्येवाधिकारस्ते मा फलेषु कदाचन। मा कर्मफलहेतुर्भूर्मा ते सङ्गोऽस्त्वकर्मणि ॥

<b>कर्मणि</b>	= कर्तव्य-कर्म करनेमें	<b>कदाचन</b>	= कभी	<b>ते</b>	= तेरी
<b>एव</b>	= ही	<b>मा</b>	= नहीं (अतः तू)	<b>अकर्मणि</b>	= कर्म न करनेमें (भी)
<b>ते</b>	= तेरा	<b>कर्मफलहेतुः</b>	= कर्मफलका हेतु (भी)	<b>सङ्गः</b>	= आसक्ति
<b>अधिकारः</b>	= अधिकार है,	<b>मा</b>	= मत	<b>मा</b>	= न
<b>फलेषु</b>	= फलोंमें	<b>भूः</b>	= बन (और)	<b>अस्तु</b>	= हो।

'कर्मण्येवाधिकारस्ते'—प्राप्त कर्तव्य- कर्मका पालन करनेमें ही तेरा अधिकार है। इसमें तू स्वतन्त्र है।

'मा फलेषु कदाचन'—फलमें तेरा किंचिन्मात्र भी अधिकार नहीं है अर्थात् फलकी प्राप्तिमें तेरी स्वतन्त्रता नहीं है।

'मा कर्मफलहेतुर्भूः'—तू कर्मफलका हेतु भी मत बन।

'मा ते सङ्गोऽस्त्वकर्मणि'—कर्म न करनेमें भी तेरी आसक्ति नहीं होनी चाहिये।

भाव यह है कि एक कर्म-विभाग है और एक फल-विभाग है। मनुष्यका कर्म-विभागमें ही अधिकार है, फल-विभागमें नहीं। कारण कि नया पुरुषार्थ होनेसे कर्म-विभाग (करना) मनुष्यके अधीन है और पूर्वकृत कर्मोंका भोग होनेसे फल-विभाग (होना) प्रारब्धके अधीन है। कर्मयोगकी दृष्टिसे देखें तो मनुष्यको जो साधन-सामग्री (वस्तु, योग्यता और सामर्थ्य) मिली है, वह 'प्रारब्ध' है और उसका सदुपयोग करना अर्थात् उसको अपना और अपनेलिये न मानकर, प्रत्युत दूसरोंका और दूसरोंके लिये मानकर उनकी सेवामें लगाना 'पुरुषार्थ' है।

कर्मयोगमें मुख्य बात है—अपने कर्तव्यके द्वारा दूसरेके अधिकारकी रक्षा करना और कर्मफलका अर्थात् अपने अधिकारका त्याग करना। दूसरेके अधिकारकी रक्षा करनेसे पुराना राग मिट जाता है और अपने अधिकारका त्याग करनेसे नया राग पैदा नहीं होता। इस प्रकार पुराना राग मिटनेसे और नया राग पैदा न होनेसे कर्मयोगी वीतराग हो जाता है। वीतराग होनेपर उसको तत्त्वज्ञान हो जाता है। कारण कि तत्त्वज्ञानकी प्राप्तिमें नाशवान् अस्तु वस्तुओंका राग ही बाधक है—

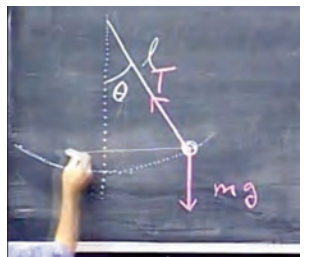
**रागो लिङ्गमबोधस्य चित्तव्यायामभूमिषु। कुतः शाद्दलता तस्य यस्याग्निः कोटरे तरोः ॥**

तात्पर्य है कि वस्तु, व्यक्ति और क्रियामें मनका जो राग, खिंचाव है, वह अज्ञानका खास चिह्न है। जैसे किसी वृक्षके कोटरमें आग लगी हो तो वह वृक्ष हरा-भरा नहीं रहता, सूख जाता है, ऐसे ही जिसके भीतर राग-रूपी आग लगी हो, उसको शान्ति नहीं मिल सकती।

## Academic Tip: Drawing dotted lines on Blackboard

One can easily draw lines on a blackboard using a chalk. But if one wants to etch dotted lines smoothly, it is certainly not an easy task. Fortunately, there is a way to draw dotted lines that feels like drawing normal curves on a blackboard with the use of a chalk. The easy trick was invented by Dr. Walter Lewin at a very young age. Following are the steps in his strategy:

1. Pick the chalk very tightly, as one picks for normal drawing.
2. Start drawing with chalk. This will give continuous curves.
3. The angle which the chalk makes is only the important point here. Normally, one places the chalk on black-board making 30-60 degree angle from the lower side or measured clockwise from right-side.
4. To draw dotted lines, make this angle about 145 degree, or 45 degree from the upper side.
5. Now pull the chalk down, but keep putting pressure on it constantly. The lines will be dotted lines.
6. Whatever you want to draw in dotted lines. Keep 145 degree angle from the side where you want to proceed. Higher the speed more spacing between dotted lines.
7. By practicing for hours, one will become expert drawing dotted lines easily and smoothly. Happy sketching!



**Student welfare committee** of Hansraj College introduced a student welfare scheme in which scholarship in the form of 100% fee concession, 50% fee concession and a sum of RS.2000 is provided to the needy students. The students is supposed to submit a copy of mark sheet of last exam passed along with the going economic year income certificate of the family and then students are interviewed for the final selection. This year the process started on 7th of September for the submission of applications and completed on 21 September in which total of 535 students submitted their applications and 501 appeared for interview. The interview was held on 5th & 7th October which was processed by 12 faculty members of the college. 46 students are given 100% fee concession, 99 students are given 50 % fee concession. And scholarships was awarded to 40 students.

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