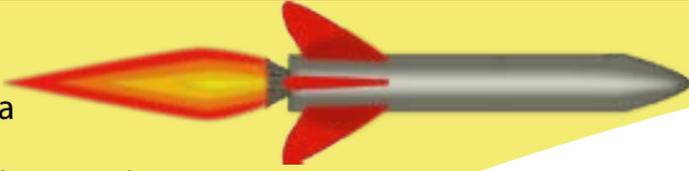




# PECPOST

## COVER STORY: The Missile Man of India



“Man needs his difficulties because they are necessary to enjoy success. To succeed in your mission, you must have single-minded devotion to your goal.

- A. P. J. Abdul Kalam

PEC University of Technology, Chandigarh kick started its new academic session with its Orientation Programme, an annual event conducted for newly admitted students. The Orientation programme was organized to allow the newly admitted students a smooth transition into the hallowed environment of the institute.

The first day of the orientation was marked by the launch of the PEC Anthem “We are PEC”, alongwith the official launch of the new PEC website and PECEasy, a mobile app designed for the ease of students. An alumni connect Website was also launched to facilitate two-way communication between the college and its alumni. The chief guest for the occasion, Sh. Indresh Kumar, PEC alumnus and leader, Muslim Rashtriya Manch also held an

interactive session with the students.

The main highlight of the second day was the presence of Mr. Varun Kalia, PEC alumnus and Ex-CEO, Cantonment Board. He interacted with the freshers, talking to them about the problems he faced in his life and encouraging them to overcome all obstacles they will face by showing character, self-belief and a strong will.

The third day of Orientation Programme student witnessed a lecture by 1984-batch IAS officer and ex-secretary, Ministry of Home Affairs, Dr. Nirmal Jeet Singh Kalsi on “Facing the new Global Technologies and Business Challenges”.

The fourth and final day of the Orientation Programme-2015 began with beautiful and engaging presentations by various cultural clubs like the Art and Photography Club (APC), Communication Club, Projection and Design Club (PDC), Speakers’ Association and Study Circle (SAASC), and

## Orientation Week’ 2015

Music Club. The students were encouraged to take up at least one cultural club as a part of their curriculum to help their overall personality development.

This was followed by presentations by various editorial boards of the institute, including the Hindi, English and Punjabi editorial boards. Following this were presentations by various technical societies of the college including the American Society of Civil Engineers (ASCE), Institute of Electrical and Electronics Engineers (IEEE), Society of Automobile Engineers (SAE) and Aero Modelling Society (AMS). The highlight was the setting up of a new technical society, the Astrophysics Society. The new society is bound to bring laurels to the institute as it has already received an endorsement from

the Indian Space Research Organization (ISRO). This was then followed by a colorful bhangra performance by the Punjabi Editorial Board which enthralled the audience.

The event concluded with the distribution of prizes by Deputy Director Dr. Sanjeev Sofat to all winners of the sports and literary events organized during the four days of the orientation. Dr. Vasundhara Singh and Dr. Divya Bansal thanked the entire organizing committee of nearly 150 students for the untiring efforts put in by them for the success of the event.

The orientation program ended leaving the freshers full of hope and excitement to kick-start a new phase of their life.



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## Independence Day celebrated with great fervour at PEC

PEC University of Technology celebrated the 69<sup>th</sup> Independence Day of India with great fervour at its campus. Dr. Manoj K Arora, Director, PEC University of Technology, Deputy Director Dr. Sanjeev Sofat, Dean Student Affairs Dr. Perinderjit Singh, Dean Academic Affairs Dr. Parveen Kalra, Registrar Prof Manish Jindal and many other dignitaries, faculty members and students were present on the occasion.

The event commenced with the hoisting of the flag by the Director followed by a welcome speech highlighting the significance of the day. Following this, Aastha Jain from the Hindi Editorial Board reminded the audience of the role of our freedom fighters in the struggle for independence. This was followed by a colourful Bhangra performance by the Punjabi Editorial Board. A soulful rendition of ‘Ae Mere Watan ke logon’ by the Music Club left the audience almost teary-eyed. The Dramatics Club also presented an energetic dance performance, which helped keep the audience in high spirits.

Director Dr. Manoj K Arora also addressed the gathering on this occasion. Reminding the students of former President, the late Dr. APJ Abdul Kalam, he



exhorted them to become greater partners in nation-building. He took pride in the achievements of various clubs and societies of the college, such as IEEE, AMS, ASCE and Dramatics Club in the previous year. He explained how the institute was providing impetus to quality research. He congratulated Dr. Vasundhara Singh, Dr. Sanjeev Kumar, Dr. Arun Singh and Dr. Uma Batra for their pioneering research work in association with DRDO. He also listed the MoUs that PEC had signed with Tata Power Delhi Distribution Limited (TPDDL) and PSRC.

He also spoke at length about the new infrastructure initiatives in the college. Such initiatives include an RFID-based surveillance system in the campus library, a 100-terminal computer cluster and the Whistling Pines Park, a botanical garden that was inaugurated last week. He said that the institute would take up upgra-

dition of class rooms and renovation of hostels soon. He asked the students for their whole-hearted support in taking the college to greater heights. He thanked the alumni for their support to the college in the last year, recounting their support in preparing the college anthem, ‘We are PEC’.

The event concluded with the singing of the National Anthem.



## RESEARCH PAPERS PUBLISHED

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Ramandeep Singh, Praveen Kalra, C.S. Jawlkar, Parametric Optimization on fused deposition modeling, International Journal of Advance Research in Engineering, Science and Technology (IJAREST), ISSN(O):2393-9877, ISSN(P): 2394-2444, Volume 2, Issue 6, June-2015, (Impact factor: 2.125)

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IOSR Journal of Business and Management (IOSR-JBM) Vol.17, "Analysis of relationship between road safety and road design parameters of four lane National Highway in India", Page No 60-70, May 2015.

Kanda, Dr. Ranvir Singh Panwar, Dr. Ratnesha Gupta, Mr. Sumit Bhardwaj, Dr. Suman Kant, Prof. Rahul Om Prakash Vaishya, Mr. Rajeev Kumar attended a workshop on Effective teaching of Technical Communication Course from 27th to 31st May 2015 at PEC University of Technology, Chandigarh.

11. Dr. HAS Sandhu attended A Short Term Course on "Technical Communication" during May (27-31), 2015 organized by University Business School (UBS) under TEQIP II at Panjab University, Chandigarh.

12. Prof. (Mrs) ShobnaDhiman attended an STC on 'Social harmony and National Unity' at Rajiv Gandhi National Institute of Youth Development, Regional Centre, Chandigarh from 17-21 August, 2015.

13. Prof. Rahul Vaishya, Programme Officer, NSS, attended a two day training workshop on 'Substance Abuse Prevention', at Chandigarh Judicial Academy, Sec-43, Chandigarh, from 19th - 20th August,

10. Sh. Kishori Lal, Dr. Tejinder Kumar Jindal, Dr. Rakesh Kumar, Dr. (Ms.) Sucheta, Dr. (Ms.) Anju Singla, Ms. Parul Grover, Dr. Pradeep Gupta, Dr. (Mrs.) Geeta Arora, Sh. Arshdeep Singh, Sh. Yatindra Kumar, Ms. Shilpa, Ms. Sudesh Rani, Dr. Poonam Saini, Dr. Neelu Jain, Sh. Rita Mahajan, Sh. Sukhwinder Singh, Ms. Sulata Bhandari, Dr. Rintu Khanna, Prof. Tejinder Singh Saggi, Dr. P. S Satsangi, Dr. Sanjeev Kumar, Sh. Rajesh Kumar

## CONFERENCES

1. Prof. Alka Jindal (Computer Science & Engineering Department) participated in "New Technology for improved competence" at National Institute of Technical Teachers Training and Research, Chandigarh from 25th to 29th May 2015.

2. Dr. S. K Verma, Associate Professor Civil Engineering Department, attended a training course on "Building Materials Characterization & Testing" from 1st to 5th June 2015 at MNIT, Jaipur

3. Prof. Har Amrit Singh Sandhu, Assistant Professor Civil Engineering Department attended a training course on "Glacier, Climate Change and Remote Sensing" from 8th to 19th June 2015 at Divecha Centre for climate change, Indian Institute of Science, Bangalore

4. Dr. Ajay Mittal, Assistant Professor Computer Science & Engineering Department attended a workshop on

"Machine learning for Medical Image Analysis (WMLMIA 2015)" from 24th to 28th June 2015 at Multimedia Analytics and System Group, School of Computing and Electrical Engineering, IIT Mandi

5. Prof. Manvjeet Kaur, Assistant Professor Computer Science & Engineering Department attended a workshop on "Machine learning for Medical Image Analysis (WMLMIA 2015)" from 24th to 28th June 2015 at Multimedia Analytics and System Group, School of Computing and Electrical Engineering, IIT Mandi

6. Dr. Vasundhara Singh, Professor Applied Science Department attended an International Conference on Advances in Functional Materials (AFM-2015) and paper presented entitled Magnetically separable and reusable nano catalyst for carbon-carbon bond formation reactions from 27th June to 09th July 2015 at Stony Brook University, Long Island, New York, USA.

7. Prof. Arun Kumar Singh, Assistant Professor Electronics & Communication Engineering Department attended International Conference on 36th Progress in Electromagnetic Research Symposium (PIERS) and paper presented entitled 1) Coplanar waveguide fed coplanar patch antenna for nanorectifiers at 2.45GHZ and

## Expert Lectures

Expert lecture in STC organized by NITTTR Chandigarh on "Remote Sensing, GIS and GPS Applications" on 31st July 2015

Expert Lecture in ITC based STC organized by NITTTR Chandigarh on 29th May 2015.

Organized and attended an invited talk by Prof. S K Tomar, Professor in Mathematics, Panjab University, Chandigarh titled "Applications of Mathematics in Engineering" at the Department of Applied Sciences, PEC University of Technology, Chandigarh on April 27, 2015 as a part of National Mathematics Day sponsored by Punjab State Council for Science and Technology.

Organized and attended an invited talk by Dr. Deepak Gumber, Associate Professor in Mathematics, Thapar University, Patiala titled "Automorphisms that are Inner" at the Department of Applied Sciences, PEC University of Technology, Chandigarh on July 28, 2015.

## NSS Activities

01-07-15: The NSS unit of PEC University of Technology collected an amount of Rs. 40,000-00 from the students, staff and faculty of the institute for the victims of the Nepal earthquake. Dr. Manoj K Arora, Director-PEC University of Technology Chandigarh handed over the cheque to the concerned officials to be sent to the PMO's relief fund.

08-08-15: NSS volunteers participated in the Vanmahotsava, celebrated at PEC Campus on 8th August, 2015 and planted around 200 plant saplings at different places around the campus.

## Foreign Internship

The internship semester is probably the best period of college life. It is an opportunity to meet the type of people you will deal with when you step out in the real world. It instills a sense of professionalism into you as you spend 6 months of college working, and in case lady luck smiles on you, earning.

In college you spend your freshman and sophomore year trying different things and finding out what profession suits you the best. By the end of my sophomore year, I had gotten inclined towards research while working on a research project with one of the professors in the Applied Sciences Department. It prompted me to utilize my internship semester to gain some research experience in order to develop a good profile considering I wish to carry out meaningful research once I graduate.

I got a wonderful opportunity to carry out a 4-month internship at IISc Bangalore, followed by a 3-month internship in Canada. This way I could make the best use of my internship as I did some serious research work while my classmates were struggling to fit into corporate life.

I got a recommendation from the professor under whom I had worked at PEC and applied for an internship at IISc Bangalore. If you decide to opt for a summer internship, a foreign internship is also a very viable option. Of the many internship programs abroad, one is MITACS Globalink Research Internship about which I got to know from a friend. It required choosing 7 projects, based on your interests, from a list of over 1500 made available by numerous Canadian Universities. We were also required to provide a CV, a research rationale, our achieve-

ments and skills that would help us to carry out research. About 700 candidates from over 10000 applicants from India, Mexico, Brazil and some other countries were thus selected.

The program sends students to Canada for a 12 week-period from May-September, funding their travel, accommodation and providing a sufficient stipend. The aim of the program is to attract brilliant minds from across the globe to Canada. They have wonderful facilities there in terms of research and academia. On top of it you are assigned a mentor, who is a local and is responsible for making you feel comfortable and to organize social activities for you so that you get to know other interns and the lifestyle of people of Canada.

Such an opportunity was wonderful not only in terms of career opportunities, but also because I got to travel a lot. I was allotted a project on Dye-sensitized solar cells in Univesite INRS, Varennes. My professor in charge was Professor Rosei, an Italian, who coincidentally, was also the president of the university. I got to know various researchers working in a wide range of domains with excellent publications in reputed journals. I also attended talks by professors from other prestigious universities.

My stay was arranged in one of the biggest cities of Canada, Montreal. It lies in the French province of Quebec and is a multicultural city with significant populations of Italian, Spanish, Chinese and Indian people. This was my first international visit and the reception made me realize why so many Indians in general, and Punjabis in particular, immigrate to Canada. I got to know other brilliant students from vari-

## Conference Publications

Rakesh Kumar and A.K. Ghosh, "Nonlinear Aerodynamic Modeling from Flight Data at High Angle of Attack using Neural-Gauss-Newton Method", AIAA Atmospheric Flight Mechanics Conference (AVIATION 2015), Dallas, USA, pp. 1-13, June (22-26), 2015.

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ous IITs, NITs and other good institutes of India and even Mexico.

I travelled a lot and visited almost all the major places within Montreal during the first month of my stay. Apart from Montreal I visited Quebec City, a vintage French city with beautiful French architecture. A trip to Canada makes no sense without seeing the mighty Niagara Falls, so we planned a trip to visit Toronto and Niagara.

I made a few new friends and we would try various restaurants, try cooking and other stuff together. We watched the FIFA Women's World cup semi-final match in the Montreal Olympic Stadium, hiked up to the Mount Royal many times, attended Montreal Jazz festival and walked through the Montreal cemetery at 3 a.m. on a moonless night. I made a few Mexican friends during one of our social events and got to know that they were musicians. I invited them over to my place and we had a good jamming session, playing our guitars and singing songs.

I hope my current juniors and the ones to come witness a similar life changing experience, a foreign internship which is not only helps you improve your profile but also helps network with brilliant individuals, giving you a taste of the work culture in other countries and above all, travelling which by all means is the best way to obtain knowledge and self-discovery.

Jaskaran Singh (Mech-4th Year)



## The Wings of Vision

*'We will be remembered only if we give to our younger generation a prosperous and safe India, resulting out of economic prosperity coupled with civilizational heritage.'*

Dr. APJ Abdul Kalam. The name, so powerful and impactful, commands its own sentence. The Missile Man, People's President; whatever name you remember him as, there is no denying that he was – and remains – one of the most influential Indians. A career scientist turned reluctant politician, he was elected as the eleventh President of India in 2002 with the support of both the ruling party and the opposition.

Dr. Kalam was known for his inspiring and moving speeches. From within so many words, the ones that caught my eyes were from his IIT Hyderabad speech. He was a man with a plan; the man who believed in being proud of our achievements and the dissemination of the truth. He believed that even with all our shortcomings, India as a nation has the immense opportunity and the capacity to grow big.

He had three visions for India: Freedom, Development, and to Stand Up for Ourselves.

Being slaves and existing, bound, under the rule of the British, the Portugese, the Greeks, the French, the Dutch who looted us and took what was ours. Dr. Kalam found the elusive

silver lining: We have not conquered anyone. He believes that it is our internalised will to 'live and let live'. We respect others' freedom and it's time that we took back our history, our culture from the clutches of our own bigoted thoughts. We started our first fight for freedom in 1857; the Mutiny. We have to surge towards protecting that thought and that sacrifice because if we are not free, we will not be respected.

*"Transforming the nation into a developed country; five areas in combination have been identified based on India's core competence, natural resources and talented manpower for integrated action to double the growth rate of GDP and realize the Vision of Developed India."*

Dr. Kalam implemented the idea of development in the document: *India Vision 2020* which was prepared by the Technology Information, Forecasting and Assessment Council (TIFAC) of India's Department of Science and Technology under his chairmanship and a team of 500 experts. Over the past fifty years, we have been a developing nation. Seeing almost 10% growth in every field and our globally acclaimed achievements, he wants us to be self-reliant and self-confident enough to be a developed nation. He recognised the five areas where we could, and should, make an

effort to build: Agriculture and food processing, Infrastructure, education and healthcare, information and communication technology, and critical technologies.

*I was in Hyderabad giving this lecture, when a 14 year old girl asked me for my autograph. I asked her what her goal in life is: She replied: "I want to live in a developed India." For her, you, and I will have to build this developed India.*

Lastly, Dr. Kalam wanted to stand up to the world. He believed us to be stronger as a sum of the whole of our parts. If we did not stand up for ourselves, no one would respect us. We have to garner that strength to be respected; that voice to be acknowledged and recognised. And this, we can achieve only if our military and economic power go hand in hand.

We lost a great man; a national hero. In this time of delusion, deception, and darkness, he was a guiding light. The man may have left but the soul of his work, his words and his vision still remain; the light still remains. If we want to be the nation that Dr. APJ Abdul Kalam dreamed of, we have to endeavour to follow in his footsteps. He built the path and the vehicle, it is our job to drive it.

-Gargi Verma (Electrical- 3rd Year)

हमारे राष्ट्र के ११वें राष्ट्रपति भारतरत्न ए.पी.जे.अब्दुल कलाम एक प्रेरणात्मक व्यक्तित्व, आशावादिता तथा जीवन लक्ष्यों के प्रति स्पष्टता की प्रतिमूर्ति थे। एक ऐसी शख्सियत जिनके जीवन का हर एक पहलू एक बहुमूल्य पुस्तक के पन्ने की तरह है। ऐसे व्यक्तित्व को चंद शब्दों, चंद वाक्यों में प्रस्तुत करना न्यायसंगत नहीं कहा जा सकता है। उनके जीवन की संघर्ष, सफलताओं, प्राप्त किये गए विभिन्न पुरस्कार एवं सम्मान के पीछे कोई न कोई शिक्षोन्मुखी कहानी छिपी हुई है। ये कहानियाँ प्रत्येक इंसान को अपने जीवन में आने वाली मुसीबतों, परेशानियों का डटकर सामना करने, कतव्यपथ पर आत्मविश्वास एवं सकारात्मक सोच के साथ अग्रसर होने को प्रेरित करती हैं। ये सीख देती हैं कि-

"अगर आप सूर्य के सदृश चमकना चाहते हो तो आपको उसके भांति जलना भी होगा। अंधात आपके अंदर लक्ष्यों की प्राप्ति हेतु वांछित। त्याग, समर्पण, कठिन परिश्रम करने की भावना भी होनी चाहिए।"

उनके व्यक्तित्व की विलक्षणता का अंदाजा इसी बात से लगाया जा सकता है कि वे परमाणु परीक्षण, अग्नि मिसाइल निर्माणदल के अहम सदस्य, इसरो के सदस्य तथा भारतीय रक्षा मंत्रालय के सुरक्षा सलाहकार भी रहे। ऐसे विभिन्न पदों पर रहते हुए, उनके गरिमा को ध्यान में रखते हुए, उन्होंने एक आदर्श स्थापित किया। कलाम साहब का जन्म रामेश्वरम के एक मध्यमवर्गीय मुस्लिम परिवार में हुआ था। परिवार की आर्थिक स्थिति अच्छी नहीं होने की वजह से अपने प्राथमिक शिक्षा के दौरान उन्हें अखबार, समुद्र तट से एकत्रित सौंपों को बेचना पड़ा। वस्तुतः उनका जीवन संघर्षों, मुसीबतों पर आशावादिता, सच्ची लगन एवं निष्ठा की सफलता की गाथा है। आज का युवावर्ग संसाधनों की कमी का रोना रोता है। कलाम साहब एक मिसाल हैं, एक उदाहरण हैं, हम जैसे युवाओं के लिए कि अगर आपमें सपने देखने का साहस है, उन सपनों को जीने का जज्बा, जूनन है तो सफलता आपके कदम चूमेगी।

बात १९९९ अग्नि मिसाइल परीक्षण के समय की है। परीक्षण से सम्बंधित सारी तैयारियाँ मुककमल हो चुकी थी, पर कुछ तकनीकी खामियों की वजह से परीक्षण २ या ३ बार टाल दिया गया। इस घटना के सन्दर्भ में तत्कालीन अखबार एवं मीडिया में बहुत चूटकियाँ ली गयीं। आखिरकार मई १९९९ में अग्नि मिसाइल का परीक्षण सफल रहा। उनके विचारानुसार सफल परीक्षण के खुशनुमा लम्हें ने उनके वर्षों की अथक परिश्रम, तमाम मशकतों एवं थकान को मिटा दिया। कलाम साहब को शिक्षण काय में बहुत रुचि थी। वे शिक्षा को परिवर्तनशीलता, प्रगतिशीलता तथा सुदृढता का आधार मानते थे। युवाओं में राष्ट्रप्रेम की भावना जगाने, नई सोच का दुस्साहस रखने, विज्ञान और प्रद्योगिकी में सक्रिय योगदान के वे प्रेरणास्त्रोत रहे।

उनकी दूरदर्शी सोच के अनुरूप खुशहाल देश के निर्माण हेतु, हिंदुस्तान को भ्रष्टाचार मुक्त राष्ट्र बनाने के लिए उन्होंने बच्चों को नैतिक मूल्यों का पाठ पढ़ाने, सचचाई और ईमानदारी के माँग पर अग्रसर होने की सीख देने की जिम्मेवारी उनके माता-पिता एवं प्राथमिक शिक्षकों को दी। वे इन विषयों को पाठ्यक्रम का अंग बनाने के पुरजोर हिमायती थे।

कलाम साहब के दिल में हर धर्म के प्रति सम्मान था, वे प्रतिदिन गीता, कुरान और बाइबिल का पाठ किया करते थे। अतः उनसे सीख लेते हुए हम सब लोगों को संकुचित विचारधारा को त्यागते हुए, अपने सोच को वृहद आकार देना होगा। तभी इस देश में सांप्रदायिक एवं धार्मिक सौहार्द तथा अमन कायम हो पायेगा। देश के इस महान वैज्ञानिक एवं असाधारण शिक्षक के इस तरह जाने से हमारे राष्ट्र को हुई क्षति कल्पना से परे है।

अंततः कलाम साहब का जीवन सिद्धांत, अनुभव और विचार को इस तरह से व्यक्त किया जा सकता है :-

"जिंदगी में कठिनाइयाँ हमें बर्बाद करने नहीं आती हैं, बल्कि यह हमारे छुपे सामर्थ्य और शक्तियों से हमारा आत्मसाक्षात्कार कराने आती हैं, अतः कठिनाइयों को जान लेने दो कि तुम उससे भी कठिन हो।"

मी ऐिक जवान डेटे शहिर दा, परकरमां नाल नाम वड्डा करगिआ।

ਜਦੋਂ ਕੋਈ ਨਾਸੀ ਮੰਨਦਾ ਸ਼ਕਤੀ ਭਾਰਤ ਦੀ, ਪਰਮਾਣੂ ਸ਼ਕਤੀ ਨਾਲ ਉਹਨੂੰ ਖੜਾ ਕਰ ਗਿਆ,

ਰਾਸ਼ਟਰਪਤੀ ਬਣ ਕੇ ਉਹਨਾਂ ਨੇ ਪਦਵੀ ਦਾ ਸੀ ਮਾਣ ਵਧਾਇਆ,

ਤੇ ਉਸ ਗੱਦੀ ਨੂੰ ਵੀ ਉਹਨਾਂ ਨੇ ਗੈਰ-ਰਾਜਨੀਤਿਕ ਸੀ ਬਣਾਇਆ,

ਖੁਸ਼ਨਸੀਬ ਹਾਂ ਅਸੀਂ ਭਾਰਤੀ ਜਿਹਨਾਂ ਭਾਰਤ ਰਤਨ ਇਹੋ ਸੀ ਪਾਇਆ।

ਕਰਕੇ ਦੁਨੀਆਂ ਨੂੰ ਸਲਾਮ ਉਹ ਚਲੇ ਗਏ,

ਤੇ ਕਰਕੇ ਚੁੱਪ-ਚੁੱਪ ਆਪਣਾ ਕੰਮ ਉਹ ਚਲੇ ਗਏ,

ਸੀ ਜ਼ਿੰਦਗੀ ਜਿਹਨਾਂ ਦੀ ਦੇਸ਼ ਨੂੰ ਸਮਰਪਿਤ, ਲੋਕਾਂ ਦੇ ਉਹ ਪਿ-ਆਰੇ 'ਕਲਾਮ' ਚਲੇ ਗਏ।

ਉਸ ਵਿਗਿਆਨਿਕ ਨੂੰ ਲੋਕ-ਲੱਖ ਪ੍ਰਣਾਮ,

ਇਹ ਲਿਖਤਾਂ ਉਸ ਸਖਸ਼ਿਅਤ ਨੂੰ ਸਲਾਮ,

ਖੇਜਾਂ ਦੇ ਵਿੱਚ ਬਣ ਗਿਆ ਇੱਕ ਤਾਰਾ ਤੂੰ ਵੀ,

ਜਲਦੀ ਵਾਪਸ ਆਉਣਾ ਫਿਰ ਬਣ ਕੇ 'ਕਲਾਮ',

ਹੈ ਲੋੜ ਭਾਰਤ ਮਾਤਾ ਨੂੰ ਤੇਰੇ ਵਰਗੇ ਪੁੱਤਰਾਂ ਦੀ,

ਜਲਦੀ ਵਾਪਸ ਆਉਣਾ ਫਿਰ ਬਣ ਕੇ 'ਕਲਾਮ'।

ਵੱਲੋਂ: ਅਵਨੀਤ ਸਿੰਘ

*It doesn't matter who you are!*

Friends, here I would like to narrate a unique experience in this New Year 2011. I went to Madurai for inaugurating the Pediatric Oncology Cancer unit at Meenakshi Mission Hospital on 7 Jan 2011. When

I completed the task, suddenly one person was approaching me and his face

looked familiar to me. When he came closer to me, I found out that he was my

driver during my DRDL times at Hyderabad. When I was working at DRDL, Hyderabad, I had a Driver whose name was V.Kathiresan, who worked with me day and night

for nine years. During that time, I used to witness, he always read some books, newspapers and journals of substance during his free time. But he meticulously read every time I saw him.

That dedication attracted me. I asked him a question? What made you to read during your leisure time? He replied that he had a son and daughter. They used to ask him a lot of questions. That

had made him study as he tried to answer their queries to his level best. The spirit of learning in him, attracted me, I told him to study formally through the distance education mode and gave him some free

time to attend the course and complete his 12<sup>th</sup> and then to apply for higher education. He took that as a challenge and kept on studying and acquiring his skills and upgraded his educational qualification, he did

B.A. (History), then he did M.A (History) and then he did M.A (Political Science) and completed his B.Ed and then M.Ed and he

worked with me till 1992. Then he registered for his Ph.D in Manonmaniam Sundaranar University and got his Ph.D

in 2001. He joined the Education Department of Tamil Nadu Government and served for a number of

years. Now in 2010, he has become an Assistant Professor in the Government Arts College

at Mellur near Madurai. His commitment and dedication has helped him acquire the

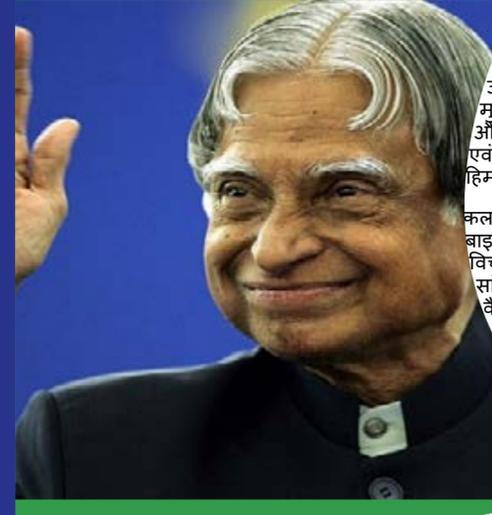
right skills in his leisure time which has made his career progress and helped

him upgrade his livelihood. The message is, it doesn't matter

who you are. If you have a vision and also the determination

to achieve that vision, you will certainly

achieve. Can you all repeat with me?



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### Finishing School-2015

With the number of college graduates rising every year, employers are strategic in the selection of recruits. To bridge the gap between requirements of the industry and the skills of the students, Finishing school, a brainchild of the Training and Placement Office was organized by PEC University of Technology from 31<sup>st</sup> July to 2<sup>nd</sup> August, 2015 for final and pre-final year students. It was aimed at inculcating basic soft skills, including personal interview skills, SWOT (Strength Weakness Opportunity Threat) analysis, writing skills, group discussion, communication skills and case study, required by every student while appearing for the recruitment process of any company.

This concept received an overwhelming response as over 400 students from pre-final and final years registered for it. Experts from around the region were called to deliver lectures to the students. Mr. Amit Hans, an HR trainer who has been in the education and training sector for over 12 years gave an insightful session on group discussions and management. Mr. Rajesh Chadha, a management-marketing professional and an author-poet was invited for a session on

### Short Term Course on "Renewable Energy and Smart Grids"

A week long Short Term Course on "Renewable Energy and Smart Grids" was organized by the Electrical Engineering Department of PEC University of Technology, Chandigarh. The course saw enthusiastic participation from faculty, research scholars and professionals from the industry.

Sh. Praveer Sinha, CEO & M.D, Tata Power DDL presided over the inauguration ceremony which was followed by Dr. Ganesh Das's session on 'Smart Grid Technologies and its Benefits'. Dr. Tarlochan Kaur (HOD, Electrical Engineering Department, PEC) elaborated on the issues and challenges of integrating renewable energy in grids. On Day 2, Sh. Ashish Jain delivered a lecture on 'Wind energy system, infrastructure and development' followed by a session by Dr. Rajesh Kumar, Professor, MNIT Jaipur. He talked about Smart Grid architecture and its prediction models and carried forward the discussion to Day 3 on 'Intelligent Control in Smart Grids'. Prof. Ashwani Kumar and Prof. Yograj Sood discussed about Renewable Energy in the deregulated Power

communication skills where he enlightened the students on the importance of the spoken ability. Prof. Anju Mehta, with her command over the English language and 22-year teaching experience handled sessions on writing skills. SWOT analysis was taken up by Mrs. Mehak Kapoor, a psychologist with more than 10 years of experience in Soft Skills, who helped students identify their strengths and weaknesses and suggested methods to improve the same. Personal Interview sessions were taken up by Mr. Rohit Kwatra, a PEC-IIM Calcutta alumnus, who taught students the nuances of how to conduct themselves during an interview. Finally, Mr. Saurabh Jaiswal, an engineering graduate from NIT Nagpur enlightened the students about the approach to be adopted for guesstimates and real life case studies.

Dr. Manoj K Arora, Director, PEC interacted with the students during the workshop and congratulated the Training and Placement office for the success of the event.

Sector. Dr. Mukesh from Thapar University, Patiala introduced the effects of new load such as electric vehicles in Smart Grids. On Day 4, Dr. Ravi Segal, MD, GE (Energy Management) delivered an expert lecture on 'Building Smarter Grids'. On Day 5, Dr. Tarlochan Kaur, Head, Electrical Engineering Department introduced the participants to Renewable Energy System Optimization Softwares followed by an expert talk on Cyber Security in Smart Grids by Prof. Poonam Saini, Assistant Professor, Comp. Sc. & Engg. Deptt., PEC.

The chief guest of the valediction ceremony, Sh. Vinod Sood, MD, Hughes Systique Corporation, motivated the participants to have a purpose in life and work with a single minded focus to actualize it. Dr. Tarlochan Kaur said that the Indian power system is facing a number of challenges, including, but not limited to, ageing infrastructure, continued growth in demand, integration of increasing share of variable renewable energy sources, the need to improve security of supply and the need to reduce emissions.

### Sadbhavna Divas

Sadbhavna diva was observed at PEC University of Technology on August 20, 2015 in the institute auditorium. The auspicious occasion was celebrated in the presence of Dr. Manoj K. Arora, Director, PEC, Dr. Parminder Jit Singh, Dean Student Affairs, Sh. Manish Jindal, Registrar and Dr. Divya, Additional Dean Student Affairs. Faculty members, staff and students also attended the celebration with full enthusiasm. Sadbhavna Divas is celebrated every year in the memory of former Prime Minister Rajiv Gandhi who sought to build a harmonious nation free of civil strife.



A pledge was administered to promote national integrity and communal harmony among people of all religions, languages and regions. The students delivered a motivational speech during the celebration. A video depicting the various shades of Indian culture, emphasizing the theme of unity in diversity was also projected on the occasion.

### Adviser to Administrator Vijay Kumar Dev inaugurates Botanical Garden at PEC

Sh. Vijay Kumar Dev, Adviser to the Administrator, UT Chandigarh laid the foundation stone of the Whistling Pines Park in the presence of Sh. Som Mittal, Chairman, Board of Governors, PEC. The 4600 sq. m. state-of-the-art botanical garden, situated between Aravli and Vindhya Hostels will feature perimeter gridded fencing, walk ways, sprinkle irrigation system and lightning systems.

Head, Electronics Engineering Department, Dr. K L Manchanda, Head, Aerospace Engineering



Department, Dr. Siby John, Head, Civil Engineering Department and Dr. Vasundhara Singh, Head, Applied Sciences Department were also present on the occasion. Following this, the dignitaries undertook a round of the institute to examine the progress of various undergoing infrastructural initiatives. The Adviser had an informal interaction with various BOG (Board of Governors) members and senior faculty over tea to discuss further scope for improvements. The Adviser expressed his satisfaction over the progress of various initiatives and offered further suggestions in this regard. The Director also expressed hope that with the current spate of infrastructural upgradations, the campus would scale new heights in the future.

To celebrate Van Mahoutsav, the NSS Unit of PEC also launched a tree-plantation drive under which 300 saplings were planted in the campus. Dignitaries including Amit Talwar, Director, Technical Education, UT Chandigarh, Sh. Sarvjit Singh, Finance Secretary, UT Chandigarh, Sh. S K Chadha, Chief Engineer, UT Chandigarh, Sh. Santosh Kumar, IFS, Chief Conservator of forests, UT Chandigarh, Sh. Anup Chauhan, Chief Engineer, PWD(B&R), Haryana and Sanjeev Aggarwal, Member, BOG, PEC planted saplings in a bid to promote a clean and green environment. Senior faculty members including Sh. Manish Jindal, Registrar, PEC, Dr. Neena Gupta,



### Life @ PEC Hostel

You know that you are in college when you wake up and count how much attendance you have before actually waking up! We always knew that the transition would be hard. It wasn't going to be like school, where your mom would see you off and welcome you back and would be all ears for your stories. The end of your academic day is greeted by a solitary bed not made. A table not dusted. A corner which consists of assortments of dead insects in varying order of voluminosity. As disgusting and horrifying this image may appear, it has some something fascinating about the human nature. You as a human are capable of adapting to such an extent that what once was un-inhabitable has now become your pied-a-terre. The sanitary freaks coolly turn into sane individuals. You begin to share a strange bond with people. Over the course of four years this of course won't seem strange. What stands out in government hostels is the promise of availability of something which in reality is missing. For instance the promise of a 24 hour electrician who doesn't exist. The promise of a sweeper who will be

at your beck and call to clean your room. Yes, even he's quite the phantom. Aberrantly this doesn't seem to bother anyone. Like I said we are an adaptable species. People continue to go on with their lives nonchalantly. A blessing however in this college is the utter absence of ragging. Which obviously is pretty cool! Certain traditions continue to amuse me. One such is that the senior always pays. Monetarily. If it's your birthday and you are unlucky enough to be a boy, available within the college premises, then you will get your butt cheeks caressed. Definitely not in the romantic way. You will have moments of monstrous pain when you try to sit down. The transition is quite visible. A year ago one actually looked forward to birthdays. Now your birth day is best kept a secret! Same goes with the day when you get placed. College is filled with such things. Its certainly different from school life, but fun nonetheless. **Kirti Vaibhav Sharma** (Mech-3rd Year)

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### That Dark Night

Stars have been the witness of all the promises that lovers make underneath, the reason for the glitter in the eyes of fascinated kids. For long they have been guiding passionate sailors and have been the subject of unlimited poems.

But it isn't the stars that are beautiful; it is rather the dark background that brings out their beauty. Ironically, nobody has pondered over the role of that dark background. The reasons could be many. Maybe no one had such a wild imagination or maybe the hypnotic stars never allowed anyone to blink an eye. It begets the question: Would the beauty of the stars be as fascinating if they were on a dark background? Sometimes the dark sky makes its beauty evident, and that night was one such night.

At 11 pm, lying on a bed of grass, looking blankly at the starless sky, I was wondering what this dark, black sky had to offer. I realised that its beauty was that it was totally abstract. The dark sky was a mystery, waiting to be solved and I was going to solve it.

That night my imagination ran wild. Initially, that sky made me calm and silent. I stared blankly at it. Like two lovers deeply in love, we were silent, our gaze fixed at each other. My mind, no longer worried about the difficulties of life, soon became

numb, yet happy.

But this didn't last long. Soon, memories from life came rushing towards me. The good memories brought a faint smile on my face and the sad ones made me hollow. I reflected on all of them, from my first bicycle ride to my recent college trip. And it suddenly dawned upon me that I had never spared so much time to even reflect upon my thoughts. That dark night made me think about every such event that had taught me the bittersweet lessons of life. It made me realise that there was a huge gap between what I wanted to do and what I was doing and this was the cause of all my stress. The only solution was to do what made me happy. Suddenly I felt as if I had conquered the whole world, as if in the blink of an eye, happiness was following me.

Before I knew, my tired soul surrendered to sleep. The next thing I remember was wak-ing up with the first streak of sunshine on the same grass bed.

That night made me cry, laugh, and introspect, made me experience contentment and gave me the most peaceful sleep. That night I unraveled the unsolved mystery of life. That dark night!

**Megha Sharma** (CSE-2<sup>nd</sup> Year)

### ਇਨਕਲਾਬ ਦੀਆਂ ਯਾਦਾਂ

ਕੋਈ ਤਾਰਾ ਭਗਤ ਜਹਿ, ਕੋਈ ਲੰਗੇ ਮੈਨੂੰ ਸਰਾਭਾ  
ਤਾਰਿਆਂ ਤੋਂ ਜਿਆਦਾ ਨੇ, ਸ਼ਹੀਦ ਦਸਦੈ ਮੇਰਾ ਬਾਬਾ  
ਅਰਦਾਸ ਮੇਰੀ ਇਹੀ ਏ, ਜਾਇਦੇ ਰਹਿਣ ਵਰਿ ਮੇਰੇ ਖੁਆਬਾਂ  
ਉਹ ਦਸਦੇ ਰਹਿਣ ਮੈਨੂੰ ਕਸਿ ਇਨਕਲਾਬ ਦੀਆਂ ਯਾਦਾਂ.....  
ਜਵਿ ਸੋਧੇ 'ਤੇ ਪਾਨੂੰ ਸੀ, ਬੱਬਰਾਂ ਫੜ ਕੇ ਧੌਣਾਂ ਤੋਂ  
ਆਪਣਾ ਖੂਨ ਵੀ ਫੋਲਿਆ ਸੀ, ਮਹਕਾਂ ਆਵਣ ਪੈਣਾਂ 'ਚੇ  
ਜਾਗ ਕੱਟੀਆਂ ਕਵਿ ਰਾਤਾਂ, ਆਜ਼ਾਦੀ ਦੇ ਲਈ ਵਰਿ ਕਮਾਦਾਂ  
ਉਹ ਦਸਦੇ ਰਹਿਣ ਮੈਨੂੰ ਕਸਿ ਇਨਕਲਾਬ ਦੀਆਂ ਯਾਦਾਂ.....  
ਸੀਨੇ ੨੧ ਸਾਲਾਂ ਤੱਕ, ਮੱਚਦੀ ਅੱਗ ਜਨੂੰਨ ਦੀ ਸੀ  
ਉਹਨੇ ਗੋਰਾ ਮਾਰਨਾ ਸੀ, ਨਾ ਕੋਈ ਫਕਿਰ ਕਾਨੂੰਨ ਦੀ ਸੀ  
ਚੁੰਮਦਾ ਊਧਮ ਫਾਂਸੀ ਨੂੰ, ਨਾ ਕੇ ਕਰਦਾ ਏ ਫਰਿਆਦਾ  
ਉਹ ਦਸਦੇ ਰਹਿਣ ਮੈਨੂੰ ਕਸਿ ਇਨਕਲਾਬ ਦੀਆਂ ਯਾਦਾਂ.....  
ਕਈ ਤੋਪਾਂ ਅੱਗੋਂ ਖੜ੍ਹਗੇ, ਕਈ ਰੇਲ ਦੇ ਇੰਜਣ ਥੱਲੇ  
ਲੋਕੀ ਮਰਨਾ ਕਹਦੇ ਨੇ, ਸੂਰਮੇ ਜਦਿਗੀ ਜਾਇਦੇ ਨੂੰ ਚੱਲੇ  
ਜਾਇਦੇ ਰੱਖਦੇ ਕਸਿ ਨੇ, ਜਾਇਦੇ ਰੱਖਦੀਆਂ ਕਵਿ ਕਤਾਬਾਂ  
ਉਹ ਦਸਦੇ ਰਹਿਣ ਮੈਨੂੰ ਕਸਿ ਇਨਕਲਾਬ ਦੀਆਂ ਯਾਦਾਂ.....

**Kharku Singh**

### Death: A flawed transcendence

People say death is the ultimate reality of life. Sitting next to my extremely ill grandmother, I wondered why this phase was put into the human life circle. Her pale and lifeless body made me weep several times. I had heard somewhere that you cannot love the creator until you love his creation. But this part of the creation seems flawed to me. Why do some suffer more, while others less. Why do some go silently while others beg for mercy to be gone?

If life is said to be the real cause of suffering and death transcendental, then why doesn't this transcendence come more vividly? Why did the creator put this phase into the human life circle? Did he want people to fear death and it to act as a deterrent to tyranny and immorality? The fear of losing my grandmother the very next moment was tearing me up. Infuriated by this ab-

surd notion of death, I thought of a more pragmatic process to the end of human circle. My mind wandered to varied theories that I wanted to substitute in order to challenge the creator's rationale behind death. But the only thing I could think to modify was that whenever or to whomsoever it shall come, let it be calm and peaceful. Let it satiate the near and dear ones that their beloved went into something that is beyond realisation. How wonderful shall it be if a person dies while saying "goodbye, I am going to a new journey" with a huge smile? The thought of these things made me optimistic and I stopped weeping and pulled myself together. Dying the same way shall give a very loud message that no matter what you are, what you boast of, what you did right or wrong in the end, you all go into the next world as equals.

**Dilpreet Singh** (Mech-2<sup>nd</sup> Year)

## WRONG OR WRONGED?

Stunning, gripping, edge-of-the-seat, shocking, riveting... use any of these adjectives for this Ajay Devgn version of *Drishyam* which is a narrative nub of the 2013 Malayalam mega hit. Although director Kamat's tale of a common man's dilemma, courage and beguile could suffer in comparison to the original by Jeethu Joseph, it still is one film that will reinstate your faith in the suspense genre. If *Kahaani* was the last memorable mainstream Hindi suspense thriller you watched, then *Drishyam* will be a grand new entry to that list.

Vijay Salgaonkar (Ajay Devgn) is a 'fourth class fail' self-made orphan who has climbed his way up to a modest little business of his own. He runs a cable outfit in a sleepy Goan village and watches films with an obsessive passion. His pretty wife (Shriya Saran), and two bubbly daughters vie for his attention, and we see them do stuff that regular folk do. Into this idyll walks in a brash teenage boy with an unconscionable demand, and ruins them in the face. The disappearance of the boy who turns out to be the son of top cop Meera Deshmukh (Tabu) and her wealthy businessman husband (Rajat Kapoor), and the investigation that follows makes up the rest of the film. Vijay is under the scanner, the beady eye of corrupt sub-inspector Gaitonde (Kamlesh Sawant) fixed on him and his family.

The premise is engrossing enough, and there is enough of a pay-off when things gather steam, but the film tries our patience in the languid build-up.



The second half is where '*Drishyam*', and Ajay Devgn— both take time to get into their groove— come into their own, and we get an interesting view of the age-old theme of crime and punishment. How far can a man go to protect his family? Where does the line between right and wrong blur? And how do real-life and reel-life feed off each other, and can the intersection throw up smart answers to near-unsolvable problems?

There is much in *Drishyam* that is instantly intriguing. Rare is a mainstream Indian film in which a character holds forth on the intricacies of 'visual memory', on perspectives, on how we tend to believe everything that we see.

For Ajay Singham Devgn, *Drishyam* represents

a return to a long abandoned terrain dotted by such critical hits as *Zakhm*, *Gangaajal* and *Om-kara*. Tabu holds her own as a top-notch police officer. Shriya Saran and other supporting cast are also satisfactory, but one character whose piercing eyes and proverbial ruthlessness will haunt you for days is police officer Gaitonde.

Gulzar's lyrics open the film and Vishal Bhardwaj's music keeps haunting you till the end credits roll, getting *Drishyam* a spot in top Hindi suspense films of all time. As for the taut screenplay (Upendra Sidhye), it keeps on playing with your mind all the time. You know what happened but even then you are taken for a ride and you start believing in it.

For all that, it remains a pleasurable, twisty tale. Overall *Drishyam* is a suspense drama with a nail-biting finish. The film deserves accolades for the way it unravels for us the street-smartness of a near-illiterate man intent on protecting his family at any cost, and how forgiveness can, sometimes, lead to a kind of acceptance, and in the way it delivers the stinging twist to the tale.

Umang Bhola (IT- 4th Year)

## MIND GAMES

1 3 5

2 4 ?

Do you know what will come in place of ?  
Let us tell you that it's not 6.

One of the following numbers can be marked out as the odd one out. Can you find which one?

1) 680986879

2) 716089780

3) 820670987

4) 932967879

Birbal is a witty trader who trades in a mystical fruit grown far in the north. He travels from one place to another with three sacks which can hold 30 fruits each. None of the sacks can hold more than 30 fruits. On his way, he has to pass through thirty check points and at each check point, he has to give one fruit from each sack to the authorities. How many mystical fruits remain after he goes through all the thirty check points?

## PECPOST READER SURVEY

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URL: <https://goo.gl/eztS7L>

or Scan the QR Code:



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