



Aspiring Metallurgists Sail to Bhilai Steel Plant

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Indus University students from Metallurgical and Materials Engineering department visited Bhilai Steel Plant, Chhattisgarh, one of the 'Maharatna' companies under Steel Authority of India, in the winter session break for their Industrial Training. In total 25 students were enrolled in the training, of which eighteen were from semester Vth and seven from semester VIIth. The training session for the third year students lasted two weeks while the same for final year students was for a month. Bhilai Steel Plant is amongst the major Steel producers in India and the largest Rail Track manufacturing plant in India. The visit has been the first ever by Indus University paving way for more such endeavors to be undertaken by other departments of the university.

Awareness Program IICT



IICT awareness program was conducted in association with Aviation program about integrated and post graduation courses. Mr. Kirtan Rathod gave presentations to the invited school students from 10th & 12th standards of recognized schools who showed keen interest in IT courses. ■

ACSIT: Hands on Practice Session

Association of Computer Science and Information Technology (ACSIT) conducted hands on practice session on ASP.Net Language and advanced programming techniques by Mr. Chandansinh Darbar, a faculty from IICT.

The sessions helped students to practice the advanced knowledge about the three tier architecture and its implementation. It also included demonstration about developing professional web application which could help students to excel in their career. ■

T&P Update

Students from IU were placed in different companies via placement drives organized by the T&P department at Indus University.

1) Four Students of MSC.IT & MCA were placed in 4C Info Engineering as trainees for their final year project. These students will be recruited after the completion of their term, based on their performance.

2) An Automobile Engineering student has been placed at Parshwanath Travels Pvt. Ltd. as an intern. The student holds an opportunity of being recruited by the company after the completion of his internship based on his performance. PTPL has also shown keen enthusiasm in visiting the campus again with more number of recruitments in future.

3) A student from Electronics & Communication Engineering student and three from Computer Engineering students were placed as trainees at Gateway Technolabs Pvt. Ltd. They will receive an official call letter after the completion of their project training.

4) Two students from Computer Engineering and

Electronics and Communication Engineering each were selected in Elitecore Technologies. The pool campus drive was scheduled on 17th Dec'15 at IU campus. In total seven colleges from Ahmedabad participated in the drive. ■

Workshop on Engine Overhauling and Elucidation

Department of Automobile Engineering had organized a two day workshop on "ENGINE OVERHAULING AND ELUCIDATION" on multi cylinder petrol engine on 24th and 25th December 2015. The workshop was conducted by Mr. Jatin Vaghela (Lab Technician - Automobile Engineering) along with Mr. Sauravsingh Tomar (Faculty Coordinator), Mr. Jagdish Patel and Mr. Ketan Prajapati. (accompanying Lab Technicians)

The workshop aimed to provide practical knowledge of functioning of multi cylinder engine to students which comprised both from Automobile and Mechanical Engineering streams. Students were allowed to conduct hands-on exercises on engine by dismantling the

working engine and perform benchmarking of the parts to understand the components and sub systems of engine. Finally the students themselves assembled the engine back to the working condition.

This workshop was an attempt by the department of Automobile Engineering to bridge the gap between biblical and practical fundamentals through which students were enriched. ■



Students' Achievement



1.) Hiteshkumar K. Parmar from 6th Semster MCA secured Gold Medal in

Sparring (Fight) 50 Kgs & Bronze Medal in Poomseas (an event in Taekwondo) in a National Championship for Ahmedabad, Gujarat State Team for 'World Taekwondo Challenge/Indian Challenge Trophy 2015'. The event occurred from 29th – 31st Dec 2015 at Giltion Ground, Mumbai.



2.) Yash Joshi, Aditya Jayswal and Chinmay Choudhary from EEE 6th semester formulated an innovative project called 'Analog Rain'. Analog Rain is a modern day technology collaboration of Mechanics, Electronics & Robotics termed as Kinetic Structures. Analog Rain as the name suggests is simply an analog representation of rain drop-like balls illustrating different patterns and not just engineering wave forms. Waveforms like simple Sine Wave, Cosine Wave and Triangular Wave can be visualized through Analog Rain. Dr. S. B. Sharma, Executive President, Dr. S.

Tandon, Dean Academics, IU & Mr. J.D.Vyas from Electrotherm India Ltd. graced and appreciated students' efforts in this innovative project. ■



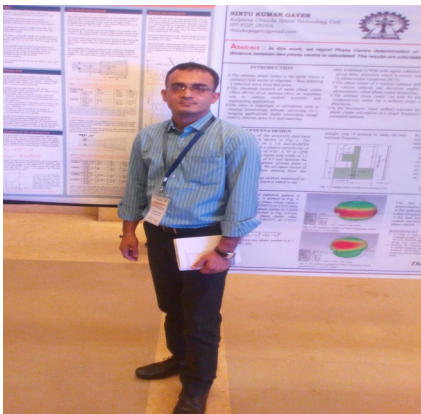
3.) Gaurav Pandya from 6th semester Metallurgical Engineering participated and secured First Runners Up position in Extempore at Intellectus'16. The event was organized by H. L. Institute of Commerce on 8th & 9th Jan'16. ■

4.) Students of 2012-16 batch of Electronics & Communication Engineering department were placed in various companies through campus drive namely Ms. Bansari Shah and Ms. Jinal Pathak at elnfochips, Mr. Chaitanya Pandit at Adit Microsys, Mr. Rudra Patel, Ms. Sukruti Dube at Elitecore Technologies and Mr. Mihir Bansal at Gateway Technolabs. ■

Faculty Achievements



1.) Prof. Mitesh J Mungra has presented a paper, titled "Identification of a Crack in Clamped-Clamped Beam using Frequency-Based Method and Genetic Algorithm", at the 12th International Conference on Vibration Problems (ICOVP-2015) at Indian Institute of Technology Guwahati (IITG) on 15th December 2015. ■



2.) Prof. Kush Parikh of Electronics & Communication department received the "Best paper award" for his paper "New Design of Conjugate Feed for the Off-set Parabolic Reflector Antenna Offers

Wide Bandwidth" presented at the International Workshop Antenna Innovations & Modern Technologies (iAIM-2015) for Satellite Communications, Navigations & Remote Sensing Systems, organized by the IEEE AP/MTT, Gujarat section, Ahmedabad, in December 2015. ■

3.) Prof. R. N. Mutagi, HoD Electronics & Communication Engineering department was invited by Nirma University on December 15, 2015 for delivering an Expert Lecture in the STTP on "Recent trends in Communication Engineering". He conducted a tutorial on 'Satellite Communication'. ■

4.) Prof. Omkar Pabbati and Prof. Hardik Prajapati of Electronics & Communication Engineering department attended an STTP on "Research Opportunities in Information and Network Security", at BVM Engineering College, V.V Nagar, from 30/11/2015 to 4/12/2015. ■

5.) Prof. Abhishek Vaghela from Electronics & Communication Engineering department attended an STTP on "Advanced Microcontrollers and Applications" during December 7 - 11, 2015 at Electrical Engineering Department, BVM Engineering College, V.V. Nagar. ■

6.) Dr.Tanushree Basak from Science and Humanities department IU was invited as a guest faculty in "XXX SERC Main School in Theoretical High Energy Physics" to deliver lectures on 'Physics of the Early Universe'. The sessions were scheduled from 16th – 22nd Nov'15 at Physics Dept., BITS – Pilani, Rajasthan. ■

Upcoming Events

Rhapsody 2K16



coming soon ...

Half-Bike takes minimalist bicycle design to the next level

Prof. Piyush Surani

Mechanical Engg.

TECH TALK

with PIYUSH SURANI

The team behind the bicycle may have simplified the humble bicycle with their minimalist design, but Mihail Klenov and Martin Angelov have gone even further with their aptly-named Halfbike. Aimed at inner-city individuals in need of something to go distances of 5 km (3 mi) or less, they've created a compact three wheeler that ditches the traditional seat and handlebars. Klenov and Angelov, the founders of Kolelinia, both have architectural and cycling backgrounds and designed the three-wheeled Halfbike for urban manoeuvrability and to easily fit on public transit. With the exception of the big wheel in front and two small tires at the rear configuration, the Halfbike is roughly premised along the urban solution transport lines as other devices like the Me-Mover, the clown-like Urb-E and the Aeyo. A traditional bike pedal arrangement drives the trike's front wheel, while the back pivoting wheels let the rider steer by leaning.

The Half-Bike's compact design is intended to make it an ideal option to the traditional inner city bike. Measuring out at 100 x 40 x 130 cm (40 x 16 x 51 in) the bike, with its aluminium frame and plywood pole steering device, weighs in at lean 7.8 kg (17 lb).

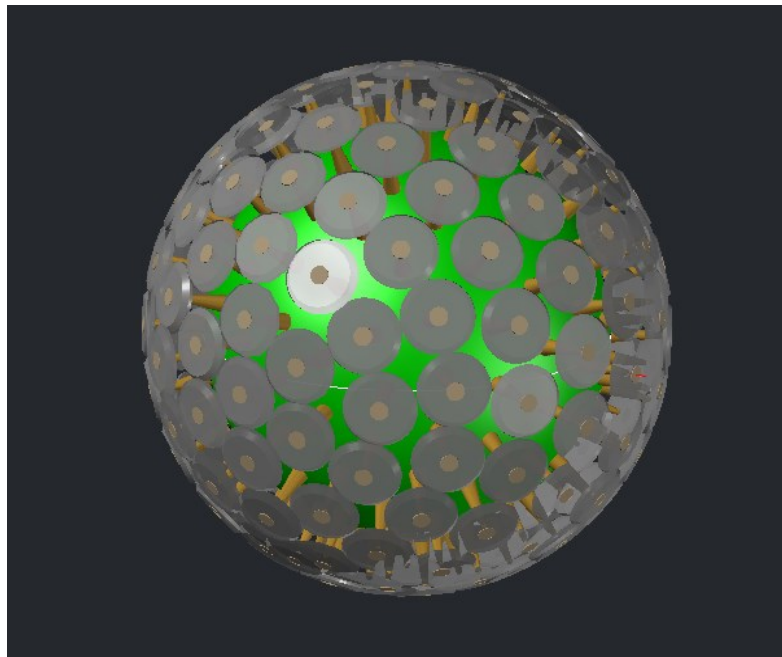
The unorthodox design and its lack of seating means riders are required to engage their glutes, quads and buttock muscles continuously to retain forward momentum and remain upright. But in spite of the constant butt workout, the Halfbike's pivoting-rear suspension and short wheelbase means its maneuverability could make it a better option for navigating Europe's narrow streets than say a traditional bike. Carrying groceries or the dog, however, may not be ideal as both hands are needed to hang on to the pole for balance and to work Halfbike's singular brake.

Halfbike is using Kickstarter to raise funds to build and promote its three-wheeled device. The company is looking to raise US\$80,000 in order to manufacture and sell the bike for \$800.

If all goes to plan, deliveries of the Halfbike will start in June or July of 2014 on a first come first serve basis. Videos of the Halfbike in action can be found on the company's website.

Anti-person Landmine Sweeper

By, Kevin Patel & Parth Patel
Mechanical-G 7th Semester



In the present world, countries like Afghanistan, Syria, etc. are heavily affected by Landmines. But immediately after war they are to be removed in order to utilize the land for agricultural and residential use. Conventional equipments are either costly or dangerous for human operators. Hence we have come up with portable, cheap, effective and remote control device.

The device is in ball or cylindrical shape with legs surrounding it. The base structure is very strong which sustains the blast of mine i.e during the blast the legs are destroyed. After replacing the legs the device is ready to roll. This can be used by military to reduce casualties by the blasts of landmine. Thus this device sweeps landmine and preserves human life.

Public Investment in India

- Anmol Modi
Mech 6-A

Public investment is a vital source for uplifting a country. Public investment is the spending of the government on the various sectors according to the demand in each of the sector. The public investment is important as it provides a platform for the poor to raise their bars and thereby bring the nation ahead. U.S. Federal Reserve economist David Alan Aschauer said “increase in public capital stock by 1% would increase the total factor productivity by 0.4%.” public capital has an indirect influence on multifactor productivity as it affects the other two inputs of labour and private capital. Public investment is regarded as a tool to sustainable economic growth and not the end cause of the sustainable economic growth. Public capital cost should not be too high to cause high taxes issue and fiscal debt to the government. Apart from a better economic growth the public investment yields returns in the quality of life. The yield in quality of life is witnessed in health of the citizens, the literacy rate, leisure time and activities and safety. We shall discuss the effects of public capital on the 3 main sectors according to me that are essential to make our nation from an emerging economy to a developed economy.

In India, healthcare sector suffers from underfunding and bad governance. Yes, India has made huge improvements since independence. But majority (70%) of the effort has been private sector led. Still India accounts for 21% of the world’s burden of disease. The amount of public fund that India invests in health care is very small compared to other emerging economies. With 4% of GDP expenditure on Healthcare, India ranks among the bottom five countries with the lowest public health spending globally. Asia's third-largest economy spends about 1 percent of its gross domestic product (GDP) on public health, compared with 3 percent in China and 8.3 percent in the United States. Pouring of public capital in health care symbolizes the wellbeing of the labour in the country, it insures good mortality rate and better emergency services. If a better healthcare is provided to the citizens of the country the labour force would have to spend less on personal health care and thereby less wages can be paid to the labours and which leads to reduced production cost. Private healthcare in India has increased but the affordability to all has not increased. So, to make the health affordable to all we insure a healthy state with people working to their full potential without sick leaves.

Education is something which is a basic need in the ever changing world today. Right from the pre-school to graduate level education has evolved the mankind into a more formal and civilized social animal. UNESCO's Education for All Global Monitoring Report 2009 is a severe indictment of the Indian government's commitment to education. India's public investment in education is 3.3% of its gross national product, lower than sub-Saharan Africa's median. But it is not all doom and gloom. India is on track to achieving a net enrolment rate of over 97% by 2015.

Although the country targeted towards devoting 6% share of the GDP towards the educational sector, the performance has definitely fallen short of expectations. Expenditure on education has steadily risen from 0.64% of GDP in 1951-52 to 2.31% in 1970-71 and thereafter reached the peak of 4.26% in 2000-01. However, it declined to 3.49% in 2004-05. There is a definite need to step up again. As a proportion of total government expenditure, it has declined from around 11.1 per cent in 2000–2001 to around 9.98 per cent during UPA rule, even though ideally it should be around 20% of the total budget. Giving education to all is supporting the young generation of India to be at par with world. There has been a class in India which is still uneducated and therefore providing education to all provides social equality to the citizens.

Public investment will be the main driver of growth as the private sector’s ability to leverage balance sheets for infrastructure projects is either already over-extended or has very little headroom. At present, infrastructure spending is about six per cent of the gross domestic product (GDP), which needs to be increased to nine per cent to make a (yearly) growth rate of eight per cent sustainable over a long term. Public infrastructure includes highways, bridges, roads, ports, etc. which are used by all the citizens irrespective of the income class. So, developing infrastructure serves a medium to FastTrack industries. The goods manufactured in industries are carried to the people through the roads, they can also be taken to the port for the purpose of exporting it to other countries. There should be benchmark up to which the money should be invested in the public infrastructure. If the level is crossed then it may cause a scenario like China which had unlimited money pouring into the public infrastructure and now it is resulted into a mere concrete structures with least usefulness.

Therefore, to sum up for India to outshine is terms of economic as well as social power in the world there should be increased spending in the healthcare sector, education sector and public infrastructure. These three sectors are the pillars for the developing India and they also serve as a trademark for any country’s economic as well as social status.

Your EGO at work

- Mr. Kartik Pandya
Director (Operations), IU

Do you know, what's the one word that can describe most failed relationships, gender discrimination, office politics, domestic violence, saas bahu sagas? Oh wait...Religious intolerance, Caste system, Mahabharata, World Wars? It's this tiny yet significant word called EGO.

So let me deal with some of the faces of ego that I have come across at workplaces. Some are in your face egoistic and some are fairly subtle:

1. Selfie le le re

Your ego has a big responsibility to ensure that you don't get hurt. Self-reflection is usually painful and so like a strict parent, your ego literally bans you from any introspection. It blocks your ability to be objective about yourself. So sometimes very important to take an inner selfie and look at it without the edit settings

2. I have the power

Power has this innate ability to make your ego wear a Navvari saree and do the Lavni. It can make you dance. It can make you corrupt beyond repair.

"You have to respect me because I can reject your leave"

"You have to do me sexual favors because I decide your promotion"

"You have to pay me a commission because I can decide to stop working with you"

And it goes on...

3. Feedback Blaster

This is a slightly different problem than Ego No 1. He is very aware of his own and his team's flaws. But if the same feedback is given by an outsider, the Dharmendra inside him retorts almost instantly with a Main tera khon pi jaonga.

4. AIB Boast

He is an 'Anytime I can Boast' person. He loves dropping names. He loves telling you some heroic stories about him. He loves laughing loudly while telling fun stories of his life. He loves to be loved.

5. The Silo Guru

Ego doesn't allow you to see reality. It underestimates others around you so that you look better. This kind of person will always prefer working in silos as he thinks everyone else cannot match his genius.

6. Don't mess with me

When good employees leave the organization, it is a straight dart to their Manager's Ego.

"I did so much for you and you want to leave the company? I am hurt"

But it's a bull's eye when the employee wants to move to another team in the same company.

"When you leave the company I can tell everyone that you got a very good hike. But if you leave for another department, Main tujhe dekh loonga"

7. Leave your brains home

This guy hates it when people around him think. He wants them to do as they are told

"HR's job is to just roll out the Offer. No need to interview. I have selected him"

"I am the Business Owner, I will plan the marketing, you only execute"

"You don't have the experience, this idea won't work"

8. What an ego, Sirji

When I was young, my granny always used to say... Don't argue with your elders. And I could never understand why. Isn't it a known fact that every new generation is smarter than the earlier one? Okay so that might be my child ego. But at work, many think if you don't call me Sir, you don't respect me and I cannot allow that. You are younger, you must obey.

9. The Artist's Ego

Somehow those who are in the profession of Arts, make their art an excuse for their ego. I think they almost hate a layman's opinion about their work. And let's not even talk about Film stars. I think they get so confused by their alter egos, that they don't know which one is them, the man in the mirror or the one in front of it.

10. Doctor vs Google

Most Doctors have 2 things in common – poor handwriting and an inflated ego. These days they have a special reason to get angry as patients google their illnesses and medication and question them. In the olden days, you had to leave everything on bhagvaan aur doctor and now suddenly that is replaced by a hungry curiosity which is very unhealthy for the doc's ego.

11. Mr. Somebody else dunnit

This person's ego puts a golden hue around self and confuses it with a halo. So everything is somebody else's fault.

"My employees are not performing because HR is not conducting training"

"My product is not picking up because technology is not supporting"

"My business is making a loss because market conditions are bad"

12. The Ninja Ego

They are always standing in the Ninja pose to attack any and everybody. They think the whole world is going after them and their kingdom and so they have their Utility Belts always ready.

13. The Child ego

Have you tried getting a sorry out of a child? Can be very difficult. But more annoying are those adults who can never ever say sorry even when they know they screwed up. They think sorry is for the weak. Ma ka ladla bigad gaya

14. Men at work

"Women are meant to knit sweaters and make babies. How can they be making intelligent conversations?"

"Women can't make tough decisions as they have a soft heart. That's not their strength area"

15. I am the best. I am the best.

When this person talks, I can picture him standing up on a bench and singing SRK's song 'I am the Best, I am the Best' from Phir Bhi Dil hai Hindustani except that the team they forgot to give credit to isn't dancing around him. Sometimes he also imagines himself in projects that he wasn't actually part of. And the best part of it all is that Ego is like wearing dark glasses in the night. You can't see all the people laughing at you. So are you one of them?

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ମକର ଶଙ୍କରାନ୍ତି
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Team i360
wishes you a

Happy Makar Şankranti



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