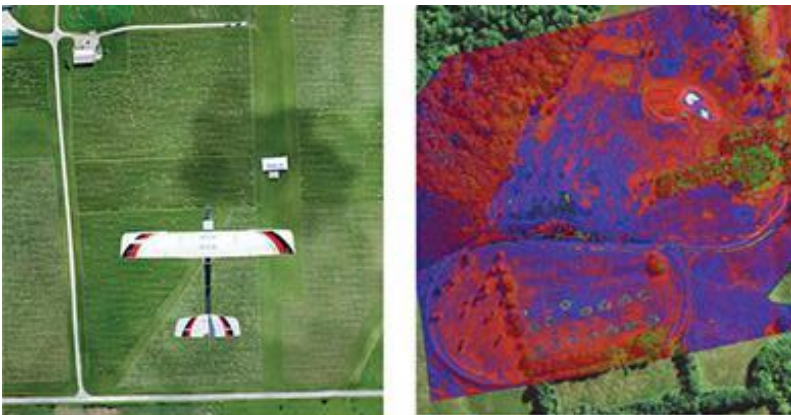


YANTRIK RUTHI

E-newsletter of Mechanical Engineering Department

VOL-2 ISSUE-1 FEB-2014 NHCE

Agricultural Drones



Relatively cheap drones with advanced sensors and imaging capabilities are giving farmers new ways to increase yields and reduce crop damage

Go Kart
AKHURATH

Karan V Rao

VI Sem



IMTEX 2014

FUNNY RIDDLES

When an Indian
Potato does
changes its
nationality?

MECHORIZON - 2013

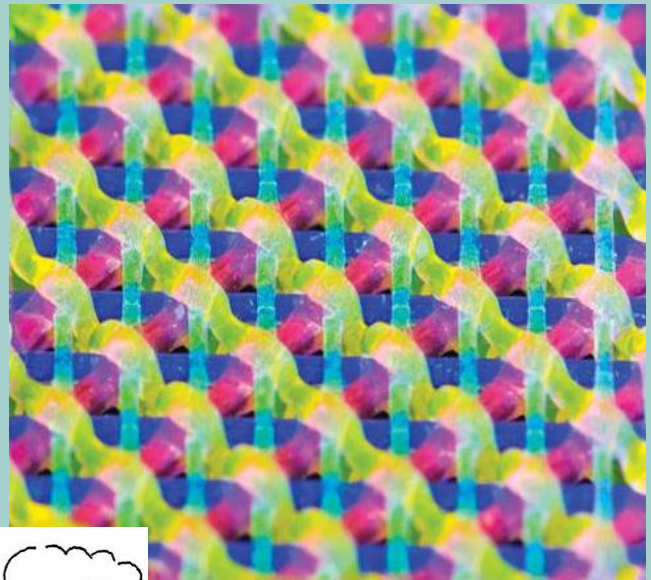
Department of mechanical engineering organized national level UG and PG project presentation titled MECHORIZON-13, to focus on the research activities in the field of material science, manufacturing technology, thermal engineering and aeronautical engineering etc. The program aims to provide a forum for researchers, academicians, UG and PG students to portray their ideologies. It intends to bring together those ideologies which hold the power to contribute to the growth of the society on a larger scale.



The Program was inaugurated by
Dr. Ramani – Principal NTF,
Dr. Manjunatha – Principal NHCE &
Dr. M S Ganesha Prasad, HOD – ME.

You can't cross the sea merely by standing and staring at the water.

3-D Printing inks made from different types of materials, precisely applied, are greatly expanding the kinds of things that can be printed. Despite the excitement that 3-D printing has generated, its capabilities remain rather limited. It can be used to make complex shapes, but most commonly only out of plastics. Even manufacturers using an advanced version of the technology known as additive manufacturing typically have expanded the material palette only to a few types of metal alloys. But what if 3-D printers could use a wide assortment of different materials, from living cells to semiconductors, mixing and matching the “inks” with precision



Siddarth

IV Sem



The Real-Life Hover board



The hover board is a type of skateboard that levitates like a magic carpet—had been a pipe dream since its fictional debut in 1989’s *Back to the Future Part II*. Now California based tech firm Hendo has built the real thing. Granted, there are caveats. Hendo’s hover board can float only an inch or so above the ground and even then only over conductive material like copper or aluminum. Just 10 are being made to order (so far). And battery life is 15 minutes—barely enough time to zoom past your enemies- **Anuj VI Sem**

Editorial board: Dr. M. S. Ganesha Prasad, Prof. Shiva Prakash S, Prof. Nagendra J, Prof. Rakesh. C, Prof. Manjesh B C.

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VGST Karnataka

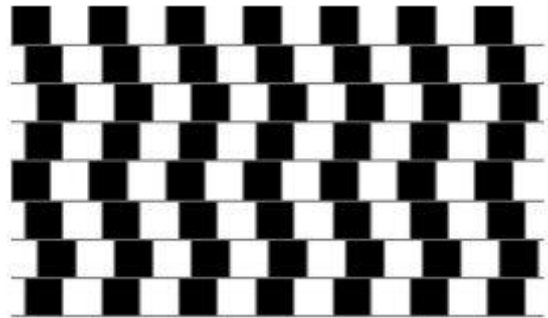
Presented

Dr. M S Ganesha
Prasad

For his research work
on Spent Lubricants in
manufacturing
industries.



OPTICAL ILLUSION: Are the horizontal lines straight or crooked?



*Go Kart
AKHURATH*

GUEST LECTURE:

- Mr. Ved Giri - Relationship Manager - DSK SUPINFOCOM International Campus on Industrial Design
- Mr. K.C. Maharudar Swamy - Gate Academy on Higher Studies in India
- Mr. ARKS Srinivas - CEO - VISTA MIND on Higher studies in India and Abroad

ALUMNI VOICE:

"I have been recruited as Graduate Engineer Trainee by UTC Aerospace Systems. This wouldn't have been possible without the constant support given by the Department of Mechanical Engineering and Placement Department of NHCE." "I express my gratitude to Dr. M S Ganesha Prasad, HOD-Mechanical Dept. NHCE for his excellent support. His constant encouragement increased my confidence." "I take this opportunity to thank Dr. Manjunatha, Principal and all my lecturers for their guidance."

S Srivatsa
Engineer @ UTC Aerospace.



ALUMNI VOICE:

"I would like to express my gratitude to you in words through this mail which I feel holds more value than just spoken words of thanksgiving." "I heart-fully thank you for being very instrumental in my success of getting placed in Continental Automotive Pvt. Ltd. It was only because of the referral through you that I got an opportunity which I grabbed in both hands." "Not only this but also having provided me with a simple yet technically productive project in analysis and design further helped me and finally be selected for the post of GET [Graduate Engineer Trainee]"

JITENDRA KUMAR SAHU
Engineer, Continental Engineering.



We should not give up and we should not allow the problem to defeat us.

Guest Lecture:

- ✚ Mr. Ved Giri - Relationship Manager - DSK SUPINFOCOM International Campus Delivered Lecture on Industrial Design.
- ✚ Mr. K.C. Maharudar Swamy - Gate Academy Delivered Lecture on Higher Studies in India.
- ✚ Mr. ARKS Srinivas - CEO - VISTA MIND Delivered Lecture on Higher studies in India and Abroad.



ENGINEERING
COMICS

WIRELESS ELECTRICITY



We already have wireless Internet and wireless phones. Why, then, are everyday appliances still shackled to the wall? To be sure, there are a few powermat chargers for small gadgets like phones. But WiTricity, based in Watertown, Mass., is thinking big. Its technology—involving a plugin coil that creates a magnetic field, which in turn powers objects as far away as 8 ft. (2.4 m)—has been tested on Toyota electric cars (with charging mats), Intel PCs (with charging pads) and more. Within 10 years, says CEO Alex Gruzzen, rooms could be wired so that all appliances—lamps, TVs, stereos—pull power from a central charging base.- **Prof. Ravi Kumar**

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Industrial visit was carried out at **PERFECT ALLOY COMPONENTS LTD.** for final year student. The main objective behind the visit was to make student aware about how various activities related to manufacturing, Designing and Quality control are carried out in company and give them the feel of real time work culture.

What do you see?



The face of an Indian Chief or an Eskimo walking

Go Kart
AKHURATH

WORKSHOP:

- Computational Modeling and analysis workshop (CFD)

Department of mechanical engineering organized national level UG and PG project presentation titled MECHORIZON-14, In the year 2014. 56 papers of UG and PG students published on the Mechanical, Automobile/IP, Civil, Environmental, Electrical, Electronics engineering etc. This project includes KSCST and VGST funded projects too. This competition aims to bring together engineering students to present and discuss new ideas, recent development research in the area of technology and its applications this competition has received overwhelming response from students, academicians, researchers from Karnataka and all over India

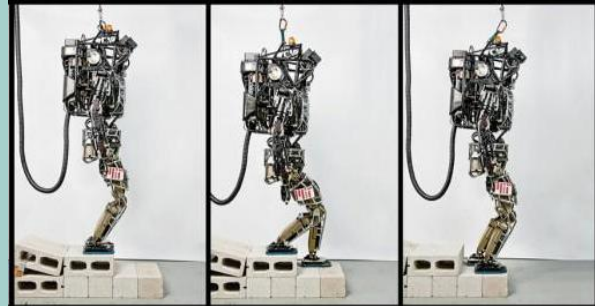
MECHORIZON - 2014



A creative man is motivated by the desire to achieve, not by the desire to beat others.

Agile Robots

Computer scientists have created machines that have the balance and agility to walk and run across rough and uneven terrain, making them far more useful in navigating human environments. Walking is an extraordinary feat of biomechanical engineering. Walking every step requires balance and the ability to adapt to instability in a split second. It requires quickly adjusting where your foot will land and calculating how much force to apply to change direction suddenly. No wonder, then, that until now robots have not been very good at it. - Danish VII Sem



RELEASED FROM A COAL FIRED POWER STATION

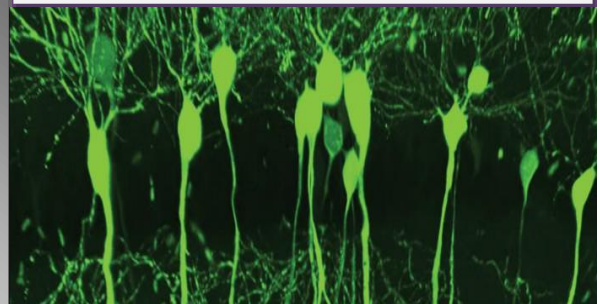


RELEASED FROM A WIND TURBINE

A new map, a decade in the works, shows structures of the brain in far greater detail than ever before, providing neuroscientists with a guide to its immense complexity. Neuroscientists have made remarkable progress in recent years toward understanding how the brain works. And in coming years, Europe's Human Brain Project will attempt to create a computational simulation of the human brain, while the U.S. BRAIN Initiative will try to create a wide ranging picture of brain activity. These ambitious projects will greatly benefit from a new resource: detailed and comprehensive maps of the brain's structure and its different regions.

Manoj - V Sem

Brain Mapping



India has the largest postal network in the world with over 1, 55,015 post offices. A single post office on an average serves a population of 7,175 people. The floating post office in Dal Lake, Srinagar, was inaugurated in August 2011.

Interesting Facts about INDIA



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VOL-2 ISSUE- 4 NOV-2014 NHCE

Alumni Meet 2014



Go Kart AKHURATH



WINNING LAP

Racing on the victory track

Publication: DECCAN HERALD
Edition: Bangalore

The National Go Kart Championship, recently organised by the Indian Society Of New Era Engineers (ISNEE), was a platform for budding engineers to showcase their talents. The participants were required to design and manufacture a go kart and compete with colleges from across the country under various performance categories. This year, a go kart developed by team Akhurath of the department of mechanical engineering of the New Horizon College Of Engineering, bagged the second slot for co-moerans amidst 123 teams registered from across the country. There were 21 members in the team with Rakshath Kulkarni as captain and vice-

captain Sai Kirthan. The team has been working on this project for a while now. Team Akhurath participated in the pre-final on July 10, 2014 at Acropolis Technical Campus, Indore, Madhya Pradesh where the CATIA design, business plan, cost report, failure mode effect analysis, design validation plan and the innovation for the go kart were thoroughly assessed. Of the 123 teams that participated in the pre-final round, only 90 teams qualified for the final round. Team Akhurath qualified for the final round.

The manufacturing of the go kart commenced at the department of mechanical engineering, New Horizon College of Engineering.

The testing was complete in the first week of October and transported to Kari Motor Speedway, Coimbatore in Tamil Nadu. The final round was held at the International Race Track between October 17 and 19. The assessments were impartial and highly competitive. After a quick inspection by the track officials, the process of checking the disassembly and assembly, brake and acceleration, skid pad, autocross, endurance and fuel economy was done. Of the 90 teams that competed in the final round, 84 teams completed the whole event. Team Akhurath successfully finished at second position among the Karnataka State teams. DHNS



CUT APART The students of New Horizon College of Engineering

Kumbh Mela was the largest gathering of people with over 75 million pilgrims. The gathering was so huge that the crowd was visible from space.



“There are two ways of exerting one’s strength: one is pushing down, the other is pulling up.”

Guest Lecture:

- ✚ Dr. Pradeep. K. Sahoo - Sr. Scientist from National Aerospace Labs B'lore Delivered Lecture on Alternative Materials for aerospace application.
- ✚ Mr. Kiran Hebbar - SIMENS Delivered Lecture on Importance of Robotics Technology.
- ✚ Mr. Sabyasachi Pal - T.I.M.E Delivered Lecture on Necessities of Higher studies.
- ✚ Mr. S. Patel - Gate Coaching Academy Delivered Lecture on Necessities of Higher studies.
- ✚ Mr. Prasad. S - The Chopras Delivered Lecture on Higher studies abroad.
- ✚ Mr. Prasad . S - Fourth Master Designs Delivered Lecture on Product Life Cycle Management.

Mangalyaan



Nobody gets Mars right on the first try. The U.S. didn't, Russia didn't, the Europeans didn't. But on Sept. 24, India did. That's when the **Mangalyaan** (Mars craft in Hindi) went into orbit around the Red Planet, a technological feat no other Asian nation has yet achieved. Building the craft cost India just \$74 million, less than the budget for the film *Gravity*. At that price, the Mangalyaan is equipped with just five onboard instruments that allow it to do simple tasks like measure Martian methane and surface composition. More important, however, it allows India to flex its interplanetary muscles, which portends great things for the country's space program – and for science in general.-**Prof. Srinath M K**

Editorial board: Dr. M. S. Ganesha Prasad, Prof. Shiva Prakash S, Prof. Nagendra J, Prof. Rakesh. C, Prof. Ronald Regaon R, Prof. Manjesh B C, Prof. Madhusudan.

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