

YANTRIK RUTHI

E-newsletter of Mechanical Engineering Department

VOL-3 ISSUE-1 FEB-2015 NHCE

IMTEX 2014
CERTIFICATE
Academia participation at IMTEX Forming 2014

This is to certify that
New Horizon College of Engineering, Bangalore
actively participated in the
Exhibition of Academia Project at IMTEX Forming 2014
Date : 23 - 28 January 2014, Bangalore
Certificate No. : P10/2014/Academia Projects/IMTEX Forming 2014

V. Anbu
V. ANBU
Director General, IMTMA

IMTMA Technology Centre
Indian Machine Tool Manufacturers' Association
www.imtma.in



IMTEX Project Exhibition -
2015



IMTEX-2015

RC hovercraft and Water
Jet Rocket Modeling



RC Aircraft Workshop

Go Kart
AKHURATH

Guest Lecture:

Mr. Mathew Chiramel. M - Vice President Mktg. NICC
Delivered Lecture on New Technological Development in
CAD Modelling



THE HIGHEST CRICKET GROUND IN THE WORLD

At an altitude of 2,444 meters, the Chail Cricket Ground in Chail, Himachal Pradesh, is the highest in the world. It was built in 1893 and is a part of the Chail Military School. - Rahul M R, IV Sem

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

REJECTED BY BILLIONAIRES BUT ACCEPTED BY AAM AADMI



Article By: **Anchit Boral - IV SEM**

Both Jan Koum and Brian Acton - who earlier worked together at Yahoo - [were rejected](#) by Facebook and Twitter in interviews, before they went full-time with WhatsApp. Imagine how different the world would be if even one of those interviews had gone better.



Brian Acton
@brianacton

[Follow](#)

Facebook turned me down. It was a great opportunity to connect with some fantastic people. Looking forward to life's next adventure.

12:44 AM - 4 Aug 2009

10,142 6,870



Brian Acton
@brianacton

[Follow](#)

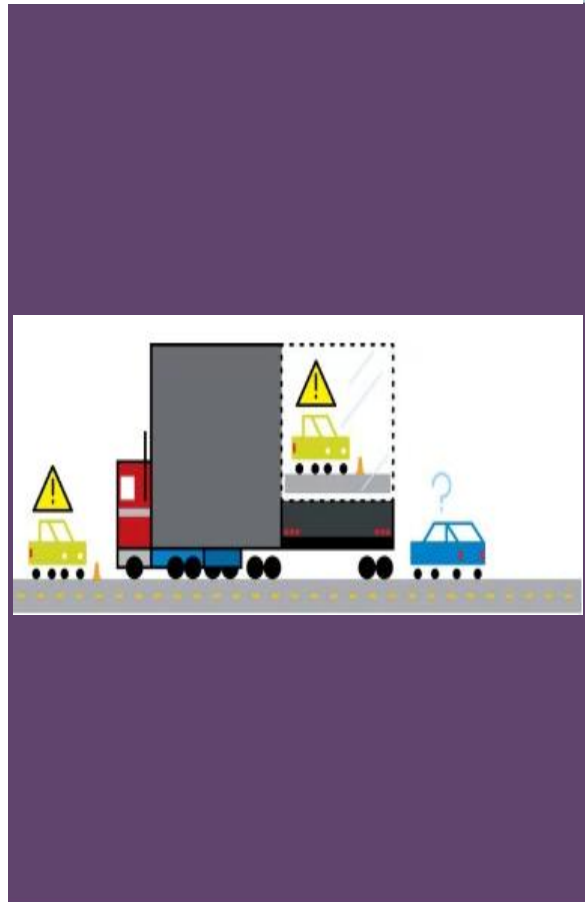
Got denied by Twitter HQ. That's ok. Would have been a long commute.

1:09 AM - 24 May 2009

Safety Truck

Developed by Samsung and Leo Burnett

Every year, thousands of people get hurt or die in traffic accidents, in part because their visibility gets blocked by a lumbering vehicle. This is especially true in Argentina, known for its winding, narrow roads. There, however, Samsung and ad agency Leo Burnett have partnered on a creative solution: a system that relays video footage from the front of a truck to four screens on its back, giving drivers a clear view of what's ahead. During its initial test, the Safety Truck covered some 620 miles (1,000 km) over three days without incident. Now Samsung is refining the technology and working with Argentine officials to roll it out more broadly. "We believe this will change the history of road safety," says Sang Jik Lee, president of Samsung Electronics Argentina. —*Sushreeth - IV Sem*



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VOL-3 ISSUE-2 MAY-2015 NHCE

Go Kart AKHURATH



New Horizon College of Engineering
IN COLLABORATION WITH ISNEE
PRESENTS
GO-KART MANIA

- WORKSHOP IS COMPREHENSIVELY DESIGNED TO FACE ENGINEERING DESIGN CHALLENGES IN INDIA.
- COVERS ALL THE BASIC ASPECTS OF AUTOMOBILE.
- COVERS ALL THE BASIC AND ADVANCED DESIGNING AND MANUFACTURING CONCEPTS
- CULTIVATE THE LEVEL OF AUTOMOTIVE SYSTEMS AND ITS MECHANISMS.

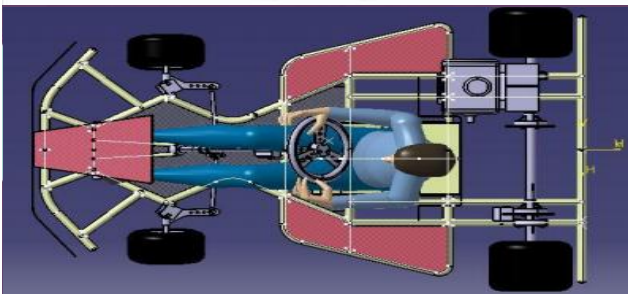
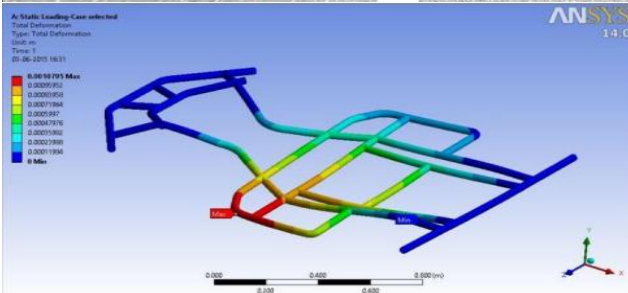
FACULTY ADVISOR:
Dr. M.S. Ganesha Prasad
Prof. Rakesh C.

Student coordinators:
1. Raghuram Macharaja
.91-9632235649
2. Hitesh N
.91-9845330218

FEES. Rs. 800/-
DATES. 11th & 12th April, 2015
VENUE. New Horizon College of Engineering

For further details and updates, Like and follow us on FB - ISNEE - NHCE

The Workshop “Go-Kart Mania” conducted by Indian Society of New Era Engineers (ISNEE) at New Horizon College of Engineering on 11th and 12th April was attended by 70 students. The workshop was presided by Mr. Ravi Robin, Project Manager R&D ISNEE. Students were theoretically strong but practicality is very much different from the theoretical world, so the students were taught how to apply theoretical concepts in practice in manufacturing performance vehicles. Workshop provided us a platform to learn how things are actually done. Basic chassis was designed and analysis was carried out in order to optimize the design. Apart from learning the chassis design we were also exposed to suspension systems. The approach of designing the suspension system using LOTUS SHARK software was also briefly discussed in the workshop. Other automotive systems such as the steering, transmission and braking were discussed in depth and a link was established with respect to each other. Precautions and critical decision regarding design factors were discussed. In Pre-Final Round, all the teams had to present their CATIA Design, Business Plan, Cost Report (BOM), Failure Mode Effects Analysis, Design Validation Plan, calculation and innovation followed by a questionnaire session with judges.



Team AKHURATH bearing the team ID 20152789 participating in Go-Kart Design Challenge 2015 organized by Indian Society of New Era Engineers (ISNEE) comprises of 24 members from Mechanical Engineering. Team AKHURATH is an agglomeration of people with a strong sense of mutual commitment thus generating performance greater than the sum of the performance of its individual members.

Team Captain – Hitesh N

Team Manager – Abhijit Padhi

Driver – Swathin V S



Riddles: What has river with no water, Forests, but no trees, and cities with no buildings?

Answer: A MAP

The best way to predict future is to create it

Guest Lecture:

- ✚ Ms. Shaista Baljee - MBA - Indian School of Business Delivered Lecture on Career Pathways after B.E and Study overseas.
- ✚ Mr. Pradeep. P.V - Executive Officer - Indian Machine Tool Manufacturers Association Delivered Lecture on Engineering Drawing, Process Planning, Tooling Selection.
- ✚ Mr. Mahesha - Project Vidyut Delivered Lecture on Electrical Vehicles.
- ✚ Ms. Archana Dubey Delivered Lecture on Preparing for Gate – 2016.
- ✚ Mr. Vineeth Thomas – Manager partner Dimension redefined Delivered Lecture on 3D – Printing.

Work Shops:

- ✚ RC hovercraft and Water rocketry
- ✚ Design and challenges in building Go- Kart
- ✚ VIMANIKA - State level Technical competition

First Laboratory Grown Human Muscle

Using human cells that had progressed beyond stem cells, but were not yet muscle, a team at Duke University grew muscle that contracts and responds to stimuli just like native tissue. Though not expected to revolutionize the medical world in terms of growing new tissue for humans, the work done at Duke is still monumental. The ability to grow muscle tissue in a lab could lead to safer drug testing and medical experiments, removing living humans from the equation. **By: Sushreeth – III SEM**



TECH INTERVIEW PUZZLE:

Technical interviews questions in Service oriented companies are not a part of the puzzle gang. But when you come to product based companies: puzzles let them test your lateral thinking and help them filter out those who can SOLVE real world problems. In interviews it doesn't matter whether you come up with correct or incorrect solution, All what matters is your way to move forward to a problem.

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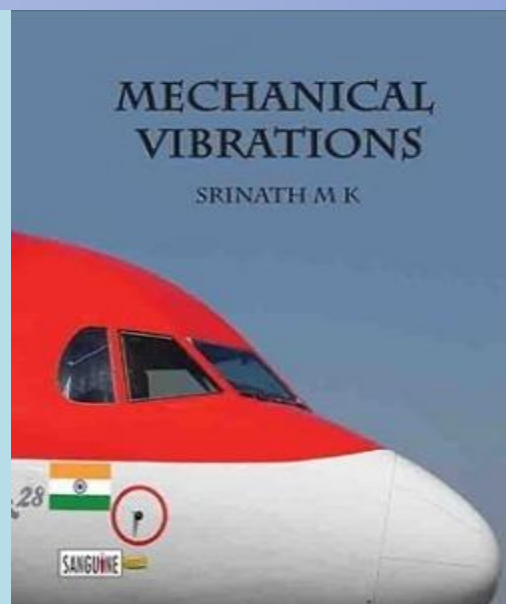
MECHORIZON - 2015

There are lots of efforts from government of India and state government to accelerate the growth of the country. By looking into herculean effort of the government organization, few private organizations also support the growth of the country and we often hear about terms such as disruptive, innovation, sustainability, social responsibility, ethics etc. to keep addressed with such dynamism, there is dire need for students to hone their creative skills and have greater awareness of self and society and to give an exposure of technical documentation for professional students, department of mechanical engineering has once again come up with the national conference held in month of may 2015 on futuristic hypothesis in mechanical engineering. There were 27 papers published in this conference mostly aiming at alternate source of energy, material science and manufactures of aeronautical engineering etc.

KSCST PROJECTS - 2015

- ✚ Intelligent third wheel for physically handicapped vehicle by Dr. M. S. Ganesha Prasad.
- ✚ Exhaust monitoring and control unit for portable generator engines by Dr. M. S. Ganesha Prasad.
- ✚ Bicycle with flywheel - a new product development by Dr. M. S. Ganesha Prasad.
- ✚ Studies on capacity improvement of solar updraft tower by Prof. Rakesh C.
- ✚ Experimental study of exoskeleton for ankle and knee joint by Dr. M. S. Ganesha Prasad & Prof. Rakesh C.
- ✚ Use of 3D printing components in miniaturized Arial vehicle by Dr. M. S. Ganesha Prasad & Prof. Mrugapatel.
- ✚ Emission reduction techniques for two wheeler engine by Dr. M. S. Ganesha Prasad.
- ✚ Solar powered trammel screen by Prof. Rakesh C.
- ✚ Studies on metal powder coating on 3D printed components by Mr. Srinath M.K.

Congratulations to Prof. SRINATH M K on the publication of his latest book "Mechanical Vibrations"



SMALL DEEDS DONE ARE BETTER THAN GREAT DEEDS PLANNED.

AMAZING FACT



Shani Shingnapur
शनी शिंगणापुर
Sonai (सोनाई)



- Show map of Maharashtra
 - Show map of India
 - Show all
- Location in Maharashtra, India

Shani Shingnapur is one of the most amazing village of India. All houses in the village didn't have doors including their shops and halls it has only door frames. They have never kept their valuable things in lock and key. No theft has been reported yet in the village, it is the most amazing fact about India. This village is situated in Nevasa taluka of Ahmednagar district of Maharashtra state in India. In January 2011, the United Commercial (UCO) Bank opened a 'lockless' branch in the village, the first of its kind in the country, taking note of the near-zero crime rate in the region. The local police were reported to be unhappy over this development and that it amounted to a breach of conditions, because the Central government of India has made it mandatory for all banks to have high security. The bank has doors, but they will always remain open. However, it was reported by the local legislator and the bank officials that adequate precautions were being taken for the safety of lockers and important documents. In 2010, cash and items worth Rs. 35000/- were stolen from a vehicle, [11][12] then in 2011 when Rs. 50000/-, gold rings, mobile phone, etc. was stolen from the home of a retired official of the Shree Shanaishwar Devasthan Trust [13] and then again in January 2012 gold ornaments were stolen from within the temple. Still villagers never keep their valuables under lock and key. **By: Aghil Babu – V SEM**

An important advancement in the medical field, 2015 introduced the world to a new way of growing human brain cells that could help uncover the mysteries of dementia, mental illness and other neurological disorders. While not exactly human brains in a dish, the cerebral organoids that can now be grown in labs possess features of a human brain in the first trimester of development. They could unlock new understanding to how neurons grow and function, leading to groundbreaking answers about brain activity, but also schizophrenia and other diseases.

By: Harshith Nagaraj – III SEM

Brain Organoids



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AKHURATH

Team AKHURATH bearing the team ID 20152789 The team has scored 192/250 points thus securing an All India Ranking of 10 among the 190 teams that took part in the Pre Final Round held at Acropolis Technical Campus Indore , Madhya Pradesh on the 22nd and 23rd of August , 2015.



Pre Final Round Representatives at Acropolis Technical Campus

List of Selected Teams								
GKDC 2015- Pre Final Round								
Team ID	Design Report	Cost Report	DVP	GC	FMEA	PPT	TOTAL	STATUS
20152685	73	34	22.666667	22.333333	22.666667	43.333333	218	Selected
20152783	72.666667	35	22.666667	22.666667	22.666667	40.666667	216.333333	Selected
20152731	71.666667	30	21.666667	22	20.333333	48	213.666667	Selected
20152963	64	35	22	23	21	46	211	Selected
20152987	59	38	23	23	19	46	208	Selected
20152939	60	35	24	22	20	45	206	Selected
20152967	58	36	22	21	22	46	205	Selected
20152735	60	33	20	20	20	43	196	Selected
20153025	70	30	20	20	15	38	193	Selected
20152789	65	28	19	21	19.333333	39.666667	192	Selected
20152835	64	31.666667	16	24	16	36.666667	188.333333	Selected
20152845	60.666667	31.666667	17.333333	20	19.333333	39.333333	188.333333	Selected
20152603	63.333333	31	18	17.333333	17.666667	39	186.333333	Selected
20152881	60	28.333333	18.333333	18.333333	18.666667	39.333333	183	Selected
20152741	58.333333	29.666667	19.333333	18.333333	19	38	182.666667	Selected
20152723	57	30	17.666667	16	16.666667	43.333333	180.666667	Selected
20152607	60.333333	35	12	12	17.333333	43.333333	180	Selected
20152833	63	28	18	13	15	42	179	Selected
20152773	62	22.333333	18.666667	18.666667	20.333333	36	178	Selected
20152899	60	26	17	15	19	40	177	Selected
20152895	55.333333	29	18	18.666667	18.666667	34.333333	174	Selected
20152717	54	29.333333	17.666667	17.666667	19.666667	34.333333	172.666667	Selected
20153003	53	32	17	19	16	34	171	Selected
20152931	54.666667	26.333333	18.333333	18	19	34	170.333333	Selected
20152753	60	28	16	10	18	38	170	Selected
20152855	59.333333	26.666667	16.666667	16.666667	15.333333	35	169.666667	Selected
20153007	52	27	17	17	12	43	168	Selected
20152715	51.666667	29.666667	19	16.333333	18.333333	32.666667	167.666667	Selected
20152747	53	25	17	13	17	42	167	Selected
20152893	45.666667	28.333333	20.333333	14.666667	20.333333	34.666667	164	Selected
20152883	50	22.666667	18	17	18.666667	36.666667	163	Selected
20153001	49	29	15	15	15	38	161	Selected
20152765	46	28	17	13	15	40	159	Selected
20152787	51.666667	24.333333	18.333333	16.666667	18	32	159	Selected
20152777	43	24.333333	16	17	18	39.333333	157.666667	Selected
20152721	42	28	16	17	13	40	156	Selected
20152729	41	28	17	14	19	37	156	Selected
20152821	51.333333	25	13.666667	20	15.666667	30	155.666667	Selected
20152679	56	23	15.333333	12	14.666667	34	155	Selected
20152815	51.333333	25	11.333333	20	16	30.666667	154.333333	Selected
20152781	35	28	19	17	18	35	152	Selected
20152737	32	27	18	14	18	40	148	Selected

ALUMNI MEET - 2015



The constituent assembly adopted hindi as the official language of the union on 14 september 1949. he day is now celebrated as hindi day.

Stars can't shine without darkness

Guest Lecture:

- ✚ Ms. Sonia Yadav – CEO & Market Researcher from NxStepz Delivered Lecture on Procedures and policies of startups.
- ✚ Mr. Somashekar . P – Asst. Manager SIEC Education Pvt. Ltd. Delivered Lecture on Carrier Overseas.
- ✚ Mr. Sheshanshu Shekar – Head from IIMS Bangalore Delivered Lecture on Overseas Education.
- ✚ Dr. Ravichandran – Prof. University of Malaysia Delivered Lecture on Importance of Hybrid Vehicles.

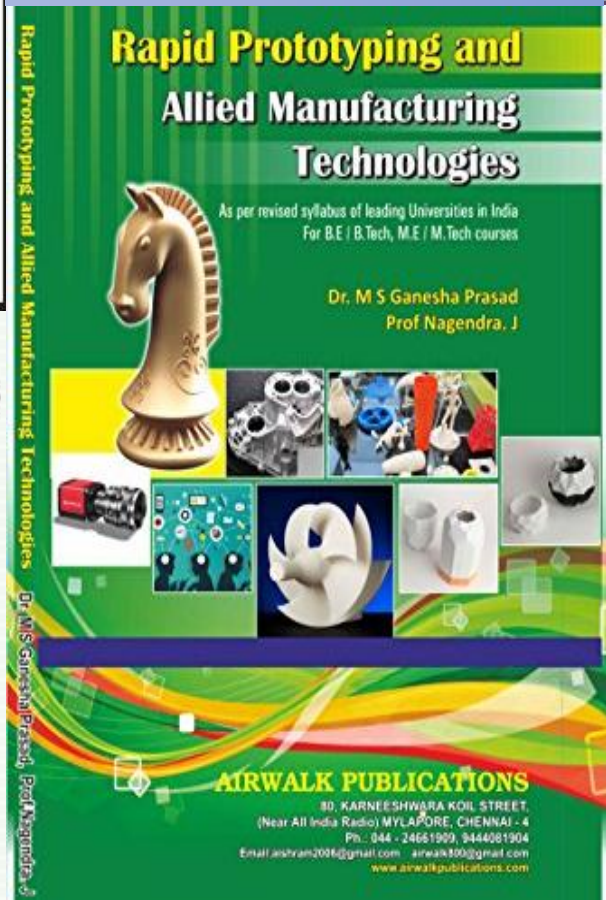
AMAZING FACTS ABOUT HUMAN EYE

1. An average person blinks 12 times per minute.
2. It composed of more than 2 million working parts.
3. Our human eye is 576 mega pixel !!!
4. Corneas are the only tissues that don't require blood.
5. It can process 36,000 bits of information every hour.
6. The eyeball of a human weights approximately 28 grams.
7. It is impossible to sneeze with eye open.
8. About 10,000 blinks / day.

IF YOU CAN READ THIS, YOU HAVE A STRONG MIND

THIS MESSAGE
SERVES TO PROVE HOW OUR MINDS
CAN DO AMAZING THINGS!
IMPROVE THINGS!
IN THE BEGINNING IT WAS HARD BUT NOW,
ON THIS LINE YOUR MIND IS READING
AUTOMATICALLY WITH OUT EVEN
THINKING ABOUT IT, BE PROUD!
ONLY CERTAIN PEOPLE
CAN READ THIS

Congratulations to Dr. M. S. Ganesha Prasad & Prof. Nagendra J on the publication of his latest book "Rapid Prototyping and Allied Manufacturing Technologies"



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