

# YANTRIK RUTHI

E-newsletter of Mechanical Engineering Department

VOL-5 ISSUE-1 FEB-2017 NHCE

## IMTEX-2017



2<sup>nd</sup> year  
Students visited  
IMTEX-2017



Dept. of Mechanical Engineering's  
stall @IMTEX-2017

### Upcoming Guest Lectures

“Mr.Saravanakumar G R from QuEST Global will be addressing students of Mechanical engineering on 08-April-2017”.

“Mr. Parimal Priyadarshi from Brainstorming labs will be addressing 2nd year students of Mechanical Engineering on 06-anril-2017”

## ANVESHAN-2017

### National Conference

on

Emerging Cutting Edge

Technologies in Mechanical  
Engineering

Saturday 8th April 2017

[anveshan2017.nhce@gmail.com](mailto:anveshan2017.nhce@gmail.com)

Life  
ISN'T ABOUT  
FINDING  
→ yourself  
it's about ←  
CREATING  
yourself

Fact: You can't read while dreaming, or tell the time

## Guest Lecture by Parimal Priyadarshi

A Guest Lecture was delivered by Parimal Priyadarshi (Founder, Brainstorming Labs LLP) on 28-02-2017. His topic was "Bridging the Gap between Academia and the Industry".

He highlighted following topics:

- Current employment statistics of Engineering graduates
- Opportunities in Aero, Mechanical and Automobile industry
- Recent technologies being used in Industry
- The emerging research fields/trends
- How to excel in the field of 3-D Modeling, Finite Element Analysis and Computational Fluid Dynamics to fetch a satisfying job
- How to increase the employability of the students?



## Trip To Germany

- *A trip I can't forget by Raghuram.Macharaja*

I am a final year mechanical Engineering Student from New Horizon College of Engineering. We usually have a Global Trip which is organized for the students of the global stream students in their final year.

We took our trip in the first week of February. The entire group of students were split into three batches for logistical relief I presume and I was part of the second batch which consisted of the ME and ECE department.

The tour in itself was a very planned and well organized trip and when coming from an engineer student, it wasn't being made up. The airway chosen for us was Oman Airways. As I am not a frequent international flyer, I am not to judge but I found the overall journey as peaceful and comfortable. The itinerary was put together in such a manner that we were engaged for the entire day as well as the entire trip. It also ensured that we had enough free time in the various spots.



**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, Mr. Advait & Mr. Hitesh (8<sup>th</sup> Sem),

**Advisory Committee:** Dr. C P S Prakash (Principal, Dayananda Sagar College of Engineering)

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New Horizon College of Engineering

Ring Road, Near Marathalli, Bellandur Post - 560 103, Bangalore, Karnataka, India



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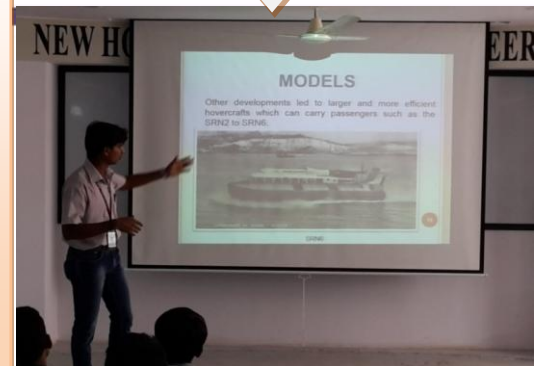
## ANVESHAN-2017

The event started with the formal Inaugural function at 11.00a.m in New Horizon Auditorium. Dr Manjunatha, Principal NHCE, Mr. Sundararajan V, Director, Technology Excellence Group, QuEST Global Engineering Private Limited, Bangalore, Dr. M S Ganesha Prasad, Dean- Student Affairs & HOD-ME, Dr Gopala Krishna, Dean- R & D, Dr. Sridhar Kursi, Prof-ME Engg, were present on the dais. The function started with Invocation Song, followed by the welcome speech given by Dean- R & D. About Conference was given by Principal, followed by chief Guest address given by Mr. Sudararajan V. Vote of thanks given by Dean-Student Affairs & HOD-ME followed by tea.



### Guest Lecture

Department of mechanical engineering had organized guest lecture on CAD/CAM/CAE software's and its scope in industrial applications for pre final year students. The speaker for the lecture was Mr. Vinod Kumar K CADD engineer from Glisten Project solution Pvt.Ltd and alumni of our institution. Students discussed about various modeling, analysis and solver software's used in automotive, aircraft and industrial applications, job opportunities in different sectors. The students were made aware about the latest software's used in industries and were able to relate theoretical concepts into practical understanding. The students found the session to be highly informative and useful. Nearly 80 students got benefitted through this program.

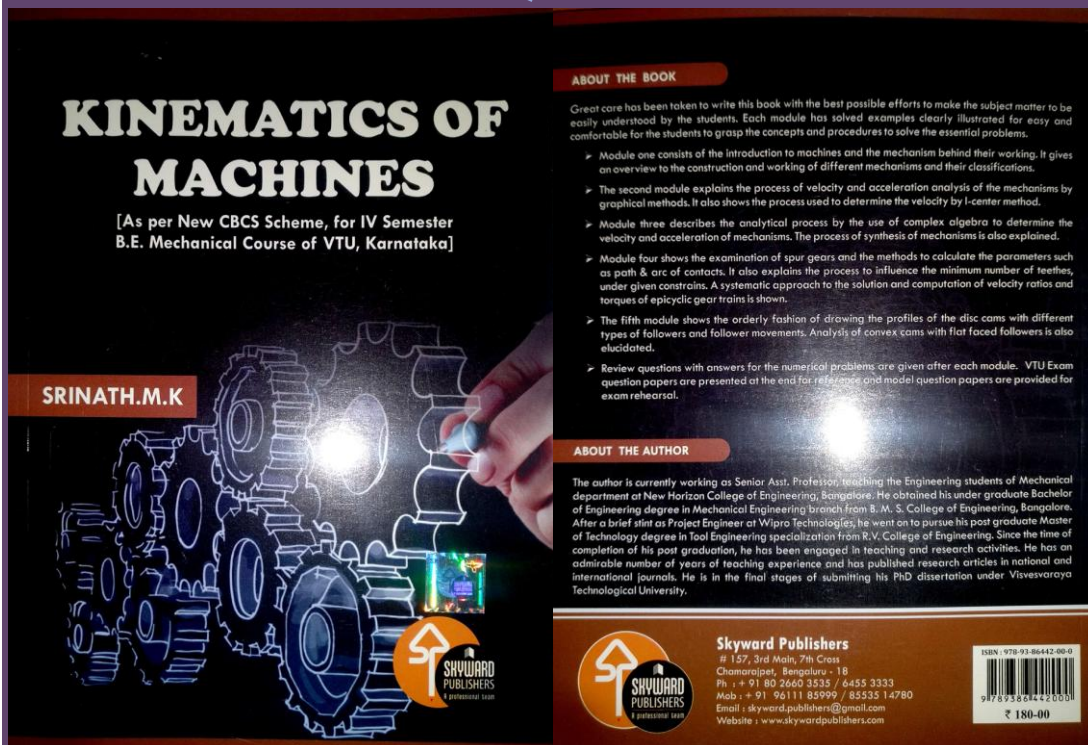


**Nilgiri Flycatcher: The Black-and-orange Flycatcher is a species of flycatcher endemic to the central and southern Western Ghats. The unique flycatcher found in the high elevation of Nilgiri and Palni hill ranges. The sparrow size Black-and-orange Flycatcher has black headed with black wings and orange throat and breast.**

**Cherish your yesterdays, dream your tomorrows and live your today**

SIX Final Year Projects  
are selected for  
sponsorship from  
**KARNATAKA STATE  
COUNCIL FOR SCIENCE  
AND TECHNOLOGY, IISC**  
Bangalore

*Congratulations to Prof. SRINATH M K on the publication  
of his latest book "Kinematics of Machines"*



**KINEMATICS OF  
MACHINES**

[As per New CBCS Scheme, for IV Semester  
B.E. Mechanical Course of VTU, Karnataka]

**SRINATH.M.K**

**ABOUT THE BOOK**

Great care has been taken to write this book with the best possible efforts to make the subject matter to be easily understood by the students. Each module has solved examples clearly illustrated for easy and comfortable for the students to grasp the concepts and procedures to solve the essential problems.

- Module one consists of the introduction to machines and the mechanism behind their working. It gives an overview to the construction and working of different mechanisms and their classifications.
- The second module explains the process of velocity and acceleration analysis of the mechanisms by graphical methods. It also shows the process used to determine the velocity by I-center method.
- Module three describes the analytical process by the use of complex algebra to determine the velocity and acceleration of mechanisms. The process of synthesis of mechanisms is also explained.
- Module four shows the examination of spur gears and the methods to calculate the parameters such as path & arc of contacts. It also explains the process to influence the minimum number of teeth, under given constraints. A systematic approach to the solution and computation of velocity ratios and torques of epicyclic gear trains is shown.
- The fifth module shows the orderly fashion of drawing the profiles of the disc cams with different types of followers and follower movements. Analysis of convex cams with flat faced followers is also elucidated.
- Review questions with answers for the numerical problems are given after each module. VTU Exam question papers are presented at the end for reference and model question papers are provided for exam rehearsal.

**ABOUT THE AUTHOR**

The author is currently working as Senior Asst. Professor, teaching the Engineering students of Mechanical department at New Horizon College of Engineering, Bangalore. He obtained his under graduate Bachelor of Engineering degree in Mechanical Engineering branch from B. M. S. College of Engineering, Bangalore. After a brief stint as Project Engineer at Wipro Technologies, he went on to pursue his post graduate Master of Technology degree in Tool Engineering specialization from R.V. College of Engineering. Since the time of completion of his post graduation, he has been engaged in teaching and research activities. He has an admirable number of years of teaching experience and has published research articles in national and international journals. He is in the final stages of submitting his PhD dissertation under Visvesvaraya Technological University.

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## Alumni Meet 2017

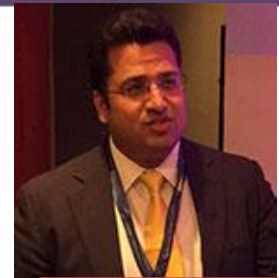
The First alumni meet of New Horizon College of Engineering for the graduated batch of 2004, 2005, 2006 & 2007 of all the departments as a whole was organized on 15th August 2017 at New Horizon Auditorium. Good number of alumni's from Mercedes – Benz, VOLVO, IBM, DELL, Accenture, Honeywell, Cognizant, Allseatech, JPMC, Azul Systems, Pro V, Regius group etc. were a part of this great event.



## Our Alumni



**Surya Ranjan**  
Adroit Engineering Solutions P Ltd



**Kumar  
Rahul**

**TeamLease  
Services**



**Alwin Wilson P**  
Key-Stone Automotive Operations Pvt.Ltd

LEAVE THE WORLD A LITTLE BETTER THAN YOU FOUND IT.

## World Environment Day

The event was organized on the occasion of World Environment Day. The event comprised of Green Talk, Environmental Music, Eco Expo, and Environmental Art. The event culminated with the Sand Art by Mr. Raghavendra Hegde.



## 71<sup>ST</sup> INDEPENDENCE DAY CELEBRATION



15th August, 2017 was a day of immense pride and joy for all Indians alike. It marked the 71st anniversary of India's Independence. On this day, we Indians celebrated our heroes and freedom fighters that sacrificed their lives for the nation, and brought us freedom, peace, and joy.

At New Horizon College of Engineering, Marathahalli, we celebrated Independence Day with great pride and enthusiasm.

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## 3D Experience

EDS Technologies Pvt. Limited had displayed mobile demo center on 27<sup>th</sup> September 2017 related to CAD/CAM/CAE wherein the students of Mechanical and Automobile Engineering were given an opportunity to have an experience on 3D design, analysis, simulation and intelligence software in a collaborative interactive environment.



## Industry Expectations on Aero Structures



Department of mechanical engineering had organized a Guest Lecture on "Industry Expectations on Aero structures" for students of V semester on 7th October 2017 by TEAM SANKALPA. This team is a group of engineering professionals who enterprise in sharing industry experience to engineering students on Aero Structures. The session was very interactive and informative. The students gained a lot of information on Aero Structures. Around 200 students attended the session.

Our Clubs: ROBOHORIZON & MECHORIZON

## *Faculty Development Programme*

Department of mechanical engineering has organized a State Level Faculty Development Programme on “Engineering Design and Analysis using CATIA” for faculty members of NHCE and for Engineering Colleges in and around Karnataka for two days on 7<sup>th</sup> and 8<sup>th</sup> October 2017.

The programme was inaugurated by Dr. Prashanth - Dean Academics, Dr. M.S. Ganesha Prasad – Dean Student Affairs & HOD – ME delivered the welcome address.

The Guest speaker for the session was Mr. Shubam Suraj – Application Engineer – Engineering Solution Department from EDS Technologies, Bengaluru. Mr. Shubam is a renowned trainer having more than 5 years of experience in training on Engineering Design using various software of Dassaults Systems. Around 45 faculty members were undergone training through this FDP.



## *Computational Fluid Dynamics*

Department of mechanical engineering had organized a Guest Lecture on “Computational Fluid Dynamics ” for students of V semester on 9th September 2017. An Eminent and renowned speaker Dr. Madhukar Rao – Technical Director - ACRI Infotech Pvt. Ltd. delivered the lecture.

The session was very interactive and informative. The students gained a lot of information in the field of CFD. Around 200 students attended the session. Feedbacks from the students were very good and the department has planned to organize some more sessions in the future.



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