

ISSUE 2

2015-2016
(JAN 2016-JUNE 2016)



Late Dr. KCG VERGHESE
FOUNDER



KCG
COLLEGE OF TECHNOLOGY
(A Unit of Hindustan Group of Institutions)

IMPACT

IMPACT - *newsletter*

VISION OF THE DEPARTMENT

The department aspires to become a globally recognized centre of excellence by producing competent professionals in Mechanical Engineering to serve as a valuable resource for industry and society.

MISSION OF THE DEPARTMENT

- Impart intellectually rigorous and holistic education to the students in the field of Mechanical Engineering.
- Establish state-of-the-art facilities for research and consultancy work.
- Enhance the knowledge and skills of the faculty with the latest advancements in the mechanical engineering domain.
- Mentor the students to develop research and entrepreneurial capabilities.
- Inculcate a high degree of professionalism and contribute to the needs of industry and society

From the Editor's Desk:

Hello,

We the Mechanical Engineers are extremely delighted to put forth this edition of newsletter IMPACT, for the year 2016. This news letter reports various significant activities and achievements of the department, along with other information you would love to know.

The whole section gives the comprehensive coverage of various happenings in the student professor environment, also it enlightens you with the students efforts the projects, achievements and awards in curricular and co curricular.

It is really heart warming to see all the contributions and the Editorial Board appreciates the time and effort that have been devoted by the different contributors.

With Regards
Editorial Team

Highlights of the Department

- The Department of Mechanical Engineering had its inception in the year 1998 and is permanently affiliated to Anna University.
- We have Mou's with Companies Like Nord Drive Systems, The Eagle view (NABL Accredited and Calibration Laboratory), CADD Centre Software Solutions Pvt Ltd
- The department has bagged an AICTE project for Rs.8,50,000 in the area of composite materials. Nearly 40 % of the students leaving the department after their course are pursuing Master's program from reputed Indian & Foreign Universities.

*"To Make Every man a
Success and no Man a
Failure"*

-Dr.KCG Verghese



Inaugural session

Workshop on Challenges & Innovative Practices in welding Technology

A one day workshop on Challenges and innovative practices in Welding Technology was conducted by the Mechanical Engineering department of KCG College of Technology in 27.02.2016. All the Faculty members and students of Mechanical Engineering attended this programme. The participants gained knowledge on efficient delivery techniques of welding.

The Resource Persons for the workshop are 1.Er.Parthasarathy Sasi Anand– Head Southern Region. M/S Fronius India (P) Ltd,Pune, 2.Er.S.Praveen, Sr.Manager, M/S Fronius India (P) Ltd, Pune 3.Er.S.S.Ananthan, Welding Research Institute (BHEL), Ex GM, BGR Boilers (P) Ltd., 4. Mr. R. Balakrishnan, NDT Expert, Ex Corporate Quality, BHEL 5. Mr. N. Nishanth, Skillveri Training Solutions (P) Ltd, Chennai.



Resource Team

*“To Make Every man a Success and no Man a Failure”
-Dr.KCG Verghese*

National Conference on Advanced Research & Innovation in mechanical Engineering

The Department of Mechanical Engineering conducted its National Conference on Advanced Research and Innovation in Mechanical Engineering on 22nd and 23rd April 2016. The conference was basically to provide a platform for research scholars to present their research work. For the conference 300 papers from many institutions were received. 56 papers were shortlisted from various disciplines as

Design, Thermal and Manufacturing. Out of which 30 papers participants attended the conference. The Head of the Department Dr. S Ramesh delivered the Welcome Address. The Presidential Address was delivered by the Principal Dr. T.Rengaraja. The chief guest was Mr. Kandasamy Rajagopalan, DGM, Manufacturing Operations/GSC, GE Grid Solu-

tions. Dr. N.S Venkataraman, Advisor/HGI presented the special address. Dr. Sumati Boopal, Vice Principal, delivered the felicitation address.



Lecture Session by Dr.Rajkumar Swaminathan, VP Rane Engine Valve Ltd



Welcome Address By Dr.S.Ramesh

Conference/Seminars/Workshops

- Mr. Nishant B Mayekar attended a FDP on Engineering Mechanics (GE 6253) held at Rajalakshmi Engg College from 4th Jan to 11th Jan 2016.
- Mr. B Rajesh Kumar, Mr. V G o p a l , Mr.K.G.Maheswaran, Mr. S.Jesudass Thomas, Mr.V.P.M.Basrkarlal, Mr.S. Arun Kumar attended a 2 days workshop on Planning and Executing an International Quality Ph.D, held at KCG College of Technology in Jan 2016.
- Mr.S.Balaguru attended a NPTEL Workshop held at Rajiv Gandhi of Engineering Puducherry in Jan 2016.
- Mr.K.G.Maheswaran attended a workshop on COMSOL Multiphysics Modeling 5.2 Workshop on Heat Transfer & Fluid Flow.
- Mr.Jagwant P, Dr. Govindaraju.N attended the 7th Edition Tamil Nadu Smart Manufacturing Summit 2016 held at CII, Chennai, Hotel Hilton, Chennai.
- Dr G.S. Kumarasamy conducted a 2 days FDP on Finite Element Methods and Applications at KCG College of Technology in Jan 2016.

Awards and Achievements

* Dr.S.Ramesh published a paper titled Analysis of light weight materials for robot manipulators in australin journal of basic and applied science

* Dr.S.Ramesh published a paper titled Micro drilling studies of titanium alloy using micro electro chemical machining in Australian journal of basic and applied science.

* Dr.S.Ramesh published a paper titled Structre and Hardness of TiC coating by Laser cladding in the International Journal of Applied Engineering Research.

* Mr.Muthukrishnan attended a Internation conference on ICCMS held at IIT Bombay on June 2016.

* D.Dinesh Kumar of III year Student presented a paper titled "A Comparative study of fusion welding and friction stir welding".

* Mr.Rajesh Kannan presented a paper titled "Analysis to optimize the process parameters and tensile behaviour of friction stir welded dissimilar joints of aluminium alloys" in an International Conference held at KPR Insitute of Technology

* Mr.K.G.Maheswaran presented a paper titled Development of a Non-edible vegetable oil stove for rural application in a conference held at SRM University.

* Mr.N.Aravind and Mr.Aamir Massoud won II Place in ICON-2016 held at Hyderabad in Jan 2016.

* A team of 3 Students won 1st place for the project "Reduction of water wastage in RO Water purifier" under the Guidance of Mr.Manoj in the Project Competition PALS INNOWAH.

* Mr.Aravind N of III year Student won an high commendation award in ICFAI Conference held in Jan 2016.



**Award for the Project
"Reduction of water wastage
in RO Water Purifier"**

Placement Records

Infosys Placement:

- Backia Goutham
- Harish Raghav R
- Jaswanth A
- Jayapal Sadasiva
- Manoj Kumar V
- Rohit Sridhar
- Vinayak Kailash A
- Mohammed Jabir V K
- Aashritha Vatsala

Assytems :

- Balagurunathan T
- Kameshkumar D
- Puja Priyadharshini

NTT DATA:

- Gumma Yogesh
- Renualt Nissan**
- DHILEPAN K
- Steel Strips Wheels Limited**

- Mrinal M
 - Vinoth Kumar V
- IGP Group**

- Koduru raja
 - Sarath s
 - Hari prasath
- CBS TECHNOLOGIES**
- Rohit Satish

Infosys Placed Students



Assytems Placed Students



Industrial Visits/Internship

- A batch of 130 Students of II year and III Year Students Visited the Integral Coach Factory and Loco works, Perambur in June 2016.
- A team of 50 Students visited the Renualt Nissan Company,Oragadam in the month of June 2016.
- Also Students Visited the Ennore Thermal Power plant in May 2016.
- J.George Birla Bose of III Yr Student has gone for 5 days In Plant Training in Kumaran Industries in June 2016.
- R.Yuvaraj Students of IV Year attended a 4 months Internship project in GKN Drive Lines, chennai.

Guest Lectures/Seminars

- Master Data Management and Engineering Change Management
- Science of Fluid and Thermal
- Introduction to multi body dynamics for product design in industries.
- One day seminar on Product Realization – Making is New Thinking was conducted on 20th Feb 2016.The resource persons for the seminar are Mr. J.K Bhushan, Monotech & Mr.Sugumar, Institute of Industrial Design.
- A Guest Lecture on Oil & Gas Conservation Fortnight (OGCF) Programme was conducted on Jan 2016 **Mr.S.Ramalingam**, Former GM – MRL Limited and National President - Energy & Fuel Users' Association of India was the Resource Person.

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Success and no Man a
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-Dr.KCG Verghese***



**Mr.Kamesh kumar, Mr.,MD Jabbas
Mr.MD Ashik of IV year won the
Second place with a cash proze of
Rs.100000 in the conference
ELECTRAMA, held on Feb 2016 at
Bangalore.**

CONTACT

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IMPACT

About the Department of Mechanical Engineering

The Department of Mechanical Engineering had its inception in the year 1998 and is permanently affiliated to Anna University. Mechanical engineering is a core area which provides the student with the skills required for a professional career in a wide range of sectors like finance, industry, consultancy and public services.

As the work of a mechanical engineer involves production, transmission and use of mechanical power and heat, we teach them to analyse the different materials used for the machines and their tolerances, investigate the different energy sources and the power they generate and the design problems if any. The department imparts knowledge in three major areas, namely Thermal Engineering, Manufacturing and Design. Student chapters of SAE, ISTE, Energy Club, and Institution of Engineers are also functioning effectively to help the student community.

Editorial Board

Editor	: Dr.S.Ramesh , HOD-Mech
Co-Editors	: Mr.S.Jesudass Thomas , Associate Prof. Mr.B.Rajesh Kumar , Assistant Prof. Mr.A.Sam Daniel Fenny , Assistant Prof.
Student Reporters	: Delvin Hester , IV Mech Aditiya S , IV Mech Jeshurun Vineeth , III Mech Ashvin J , III Mech Venkateswar , II Mech Ajith Kannan , II Mech

Value Added Courses

- Solid works
- Eagle view
- ABACUS
- HVAC
- IC Engine Dismantling and Assembly Training

Funded Projects

- Chulha Stirling Engine
Funded by IEE-
MA,Bangalore

Programme Educational Objectives

PEO 1	Excel as competent professional or entrepreneur or researcher in related fields of Mechanical Engineering.
PEO 2	Analyze, design/develop innovative solutions for real world engineering problems using appropriate modern tools.
PEO 3	Exhibit professionalism, ethical attitude and adapt to the changes in the industry and society supporting sustainable development.
PEO 4	Lead and manage teams for effective execution of projects.

