GOLDEN VALLEY EDUCATIONAL TRUST

Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University)

Oorgaum, KGF - 563 120.

DEPARTMENT OF MECHANICAL ENGINEERING

MechNEWS 2017-18

PRESIDENT MESSAGE

I am quite happy to know the release of third edition of MechNEWS. Since our educational program has to give more emphasis on the overall development, I would like our students to involve more actively in co-curriclar activities along with their academics. Hope this newsletter has portrayed all activities, and I wish all students very best and extend our full cooperation and support for the rest of your stay with us.

FROM PRINCIPAL DESK

I congratulate the editorial team for the timely release of its third edition of annual news letter. I am happy that our faculty are focused not only on the best academic outcome but also supporting to focus more on co curricular activities. The regular release of these newsletters will encourage more participation from our students.

ABOUT THE DEPARTMENT

Apart from the UG program, we have a PG program with an intake of 18 students in machine design. Recently a lab was setup for PG students to get good exposure on various software's related to their specialisation to carry out project work. The department has signed an MOU with CADD centre and established an inhouse training centre exclusively for our students. The department has obtained permission to continue its research centre under Visvesvaraya Technological University. Many of our faculty members are engaged in research through this research centre. We have a very cordial faculty student engagement in the department and this helps in the overall development of the student's progress. The third edition of MechNEWS gives us a glimpse of our activities for this academic year.

AT A GLIMPSE

TOPPER OF THE BATCH

Dhivakar I
(1GV15ME401)

VISION OF THE DEPARTMENT

To transform the students into technically competent mechanical engineers nurturing them in learning sustainable and innovative technology with professional ethics and social concern.

MISSION OF THE DEPARTMENT

M1. Striving to empower students with fundamentals in the field of Mechanical Engineering with innovative, managerial and professional skills.

M2. To create an environment for progressive learning through industry–institute partnership.

M3. Imparting quality technical education stressing on new technology with professional ethics for the benefit of the society.

Program Educational Objectives (PEO's)

PEO1: Graduates shall have successful career in Mechanical Engineering with sound fundamental knowledge in science and engineering practice.

PEO2: Graduates shall be professional in applying Mechanical engineering principles with a focus on innovation, research and having awareness of societal impact.

PEO3 : Graduates shall have ability to work in a team with professional ethics, good communication skills to achieve lifelong learning.

Program Specific Objectives (PSO's)

PSO1: Have the ability to apply principles of Mathematics, Basic science and Engg technology to solve Mechanical Engineering problems.

PSO2: Ability to design components or processes in the areas of Mechanical Engg.

PSO3: Graduates will have the ability to perform thermal analysis and implement mechanical systems in domain specific industries.

MEMORANDUM OF UNDERSTANDING (MOU)

An MOU was signed between Dr. T. Thimmaiah Institute of Technology and National Education Foundation (NEF) on 12th October 2017, bridging the gap of employment, digital and academic divides by providing high quality online education to students and job seekers.

GUEST LECTURE

Guest lecturers are one of the best ways to help students to meet real professionals and know about what they do and how it relates to the syllabus.

Thanks to Mr. Srinivasulu, Sr. Analyst General Motors Technical Centre, Bangalore for delivering wonderful lecture on "Automobile Simulation and scope of job opportunities" on 21st September 2017 to make our students understand about its importance and opportunities.

Thanks to Mr. Raja Sekhar from TATA ELXI for his lecture on "Finite Element Methods and Structural Analysis" 13th October 2017 which helped our students to understand numerical method for solving engineering problems and basic steps involved in conducting analysis.

STUDENTS ACTIVITIES

Sports Achievements :

Dr. TTITians Participated in the "VTU athletic meet 2017", which was held from 3rd to 6th Nov 2017 at VTU - Belagavi.

Mr. Rakesh. A, of 7th Semester, secured Bronze medal in the "Decathlon event", Mr. Kishore Raj S, of 1st Semester secured Silver medal in the "Triple jump event" in the 20th VTU inter-collegiate meet at Belagavi.

Dr. Sudersanan P.D., HOD and students of Mechanical Engineering received the Overall Championship trophy in Sports for the year 2017-18 from Dr. T. Venkat Vardhan, President – GVET and Dr. M. S. Reddy, (Registrar, Bangalore North University) during College Day Function.

Professional Achievements :

Mr. S Pradeep (II Year) presented a paper on “Strengthening the Efficiency of Aircraft by harvesting the Air” in Mechnovate 2018, organised by American society of Mechanical Engineers, VIT University-Vellore from 22nd to 25th March 2018.

Mr. Mangesh S (III Year) secured Third place in “Solid Modeling” held at Inter-collegiate Technical Fest 2018, Dr. TTIT-KGF.

Mr. S Pradeep (II Year) secured First place in “Paper Presentation” held at Inter-collegiate Technical Fest 2018, Dr. TTIT-KGF.

Mr. Rahul Kumar (III Year) and Pradeep S (II Year) participated in Inter-Collegiate climate change quiz 2017 organised by Divecha centre for climate change, IISc-Banglore on September 14th 2017.

Priya. G (M.Tech Student) , "Design & FEM Analysis of Hip implant for Walking and Running loading conditions., International Journal of Engineering Sciences & Research Technology, Thomson Reutors Endnote., 2017

Srikanth K (M. Tech Student), "Impact Analysis of Toyota land Cruiser car bumper using ANSYS Autodyn 3D"., International Journal of Innovative Research in Advanced Engineering., 4(12), 2017

Pushpashree N, (M.Tech Student), "Design & FE Analysis of Heart valve for closure of Atrial septal defect in Heart"., International Journal of Innovative Research in Advanced Engg., 4(12), 2017.

Ram Mohan B (M.Tech Student), “Design & FE Analysis of Hybrid composite Motor cycle Helmet"., International Journal of Innovative Research in Advanced Engineering., 5(01), 2018.

GRADUATION DAY

FACULTY ACTIVITIES

Workshops Attended :

Dr. Narasimha C , Associate professor, attended Two weeks workshop on “Biodegradable Green and nano composites for industrial applications” from 20th Oct to 2nd Nov 2017 at Srisai Ram institute of technology Chennai, Tamilnadu.

All Technical staff attended 5 days "Industrial training program" from 23rd to 29th January 2018 at Deccan Hydraulics Private Ltd, Bangarpet.

Dr. Narasimha C, Associate professor, attended Two weeks FDP on “Finite element method and Stress Analysis” from 22nd Jan to 3rd 2018 Feb at Cambridge Institute of Technology, Bangalore.

Mr. Preetham T & Mr. Thontaraj URS, Assistant Proffesor attended two days national level workshop on advanced technology in thermal engineering at Ekalavya institute of technology - Chamarajanagar in association with VTU Belgavi.

Dr.Narasimha C ,Associate professor, attended Three days FDP on” Machine learning using Python (Hands on training)” from 21st to 23rd June 2018 at Sri Ramakrishna Engineering college, Coimbatore, Tamilnadu.

Papers Published / Presented :

Mohan Kumar. K. Associate Professor presented a paper on “Tribology of Silicon Surface: a review” at IConAMMA 2017, Amrita University Bengaluru., and got published in scopus indexed journal of Materials Today proceedings of Elsevier publications.

Manjunatha Babu N S-Associate Professor published a journal on “Evaluation of Mechanical Properties and Experimental Investigation on Thrust force-Torque during drilling of Hybrid Carbon-Glass fiber fabric laminates” in scopus indexed journal of Taylor & Francis Publications.

Sampath A – Assistant professor published a journal on “Prototype designing of coin based sensing water filling system” in international journal of engineering research and technology (IJERT), ISSN: 2278-0181.

Pruthvi H M – Assistant Professor published a journal on “Evaluation of hardness and compression properties of Aluminium alloy using Taguchi optimization technique”, in international journal for research in applied science & Engineering Technology, Vol 5, Issue VIII, August 2017.

Balasubramaniam N S, presented a paper on “Compact test on duplex stainless steel” in International Conference on Recent Engineering Science. SKIT Bengaluru, 2018., and got published in IJIRSET

INDUSTRIAL VISIT

HMT Machine Tools Centre - Bangalore

ISRO Satellite Centre - Bangalore.

IGCAR - Kalapakkam, Tamil Nadu

STUDENTS PLACEMENT

Prema A	Super Auto Forge
Prem Kumar	Super Auto Forge
Abhishek G	Super Auto Forge
Saagar R	Super Auto Forge
Dinesh K	Super Auto Forge
Dinesh S	Super Auto Forge
Akhil Raj	Super Auto Forge
Dhivakar I	Super Auto Forge
Shivaraj Kumar S	Super Auto Forge
Charan V	Super Auto Forge

DEPARTMENT TOPPERS

FIRST YEAR

Haris Jamil
(1GV17ME014)

Syed Raiyan Ahmed
(1GV17ME029)

Surekha P
(1GV17ME028)

SECOND YEAR

Swetha. P
(1GV16ME043)

Gnanendra Reddy
(1GV17ME402)

Sumanth G
(1GV16ME040)

THIRD YEAR

Rajendra T
(1GV15ME025)

Sachin N
(1GV16ME424)

Shantharaj Guthal B
(1GV16ME430)

FINAL YEAR

Arun K A
(1GV14ME006)

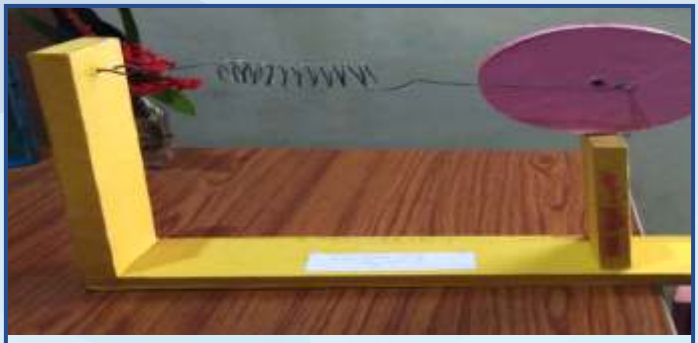
Dhivakar I
(1GV15ME401)

Abhishek G
(1GV14ME001)

CLASS ROOM MODELS

Geneva Mechanism

Quick return mechanism



Spring Mass System

Two Pulley, spring, mass system

Benefits of class room models are it makes students to understand subject with live example and it improves student's involvement and participation more in the class room. It helps lecturers to help students who are struggling more to understand the topic and it empowers them to think critically and to truly absorb the information.

STUDENTS TOUR

SUPER-ANNUATION