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SIDHARTHA INSTITUTE OF SCIENCE & TECHNOLOGY
NARAYANAVANAM ROAD, PUTTUR.

DEPARTMENT OF MECHANICAL ENGINEERING

M-EOLAS

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering in Siddhartha Institute of Science and Technology (SISTK) was established in 2012-2013 with an intake of 60. In a year 2013-2014 Intake has been increased to 120 students. The department is continuously Striving to achieve excellence in education, academic and Industry oriented research, with perfect blend of Intellectual and practical experiences.

VISION:

Mechanical Engineering is one of the largest, broadest and oldest engineering disciplines. It finds its application in every branch of industry, including aerospace, manufacturing, automotive, building systems, energy, chemical and high-technology sectors. To be a centre of excellence in the field of Mechanical Engineering where the best of teaching, learning and research synergize.

MISSION:

To prepare effective and responsible graduate and engineers for global requirements by providing quality education. Motivating students to excel by augmenting their knowledge to continuing education programme. Conduct basic and applied research and to generate intellectual property.

HOD MESSAGE:

A very warm welcome to the website of the Department of Mechanical Engineering, happens to be the backbone of any industry with amazing versatility. The department of Mechanical Engineering strives to train students in mechanical engineering science as well as application of these scientific methods to conceive, organize and carry out scientific design of engineering system.

The department of Mechanical Engineering has started from the session 2012-13. The department has well-equipped labs to impart sound practical knowledge of the subject. This department has dedicated and competent faculty members to impart quality education, project guidance, personality development to enable them to be placed with a reputed organizations.



D.SUDHAKARA
HOD
MECH Dept.

Faculty achievements

"Education is the most powerful weapon which you can use to change the world".

-Nelson Mandela

Faculty development programs

Confidence and Hard-Work is the Best Medicine to kill the disease called Failure. It will make you a Successful Person

-A.P.J. Abdul Kalam

FACULTY ACHIEVEMENTS:

INTERNATIONAL JOURNALS:

- *D.Sudhakara ,Dr,G.Prasanthi “ REVIEW OF RESEARCH TRENDS : PROCESS PARAMETRIC OPTIMIZATION OF WIRE ELECTRICAL DISCHARGE MACHINING (WEDM)” International Journal of Current Engineering and Technology ,ISSN 2277 – 4106, Jan 2014*

FACULTY DEVELOPMENT PROGRAMS:

- *N.Sreedhar has participated AICTE sponsored two week faculty development programme on “fatigue & fracture mechanics in finite element analysis ”during march 03-15,2014 in MITS ,AP,INDIA .*
- *D.Sudhakara participated AICTE sponsored two week faculty development programme on “fatigue & fracture mechanics in finite element analysis ”during march 03-15,2014 in MITS ,AP,INDIA .*
- *D.Sudhakara participated One day seminar on "Renewable sources of energy" at JNTUCEA, Anantapuram , Mar8th 2014.*
- *D.Sudhakara participated One day seminar on “principles and applications of CFD and modern controls” organized by SVPCET on 22 February 2014.*
- *K.Bharath Kumar participated One day seminar on “principles and applications of CFD and modern controls” organized by SVPCET on 22 February 2014.*
- *S.Jaya kishore participated One day seminar on “principles and applications of CFD and modern controls” organized by SVPCET on 22 February 2014.*
- *A. Suresh participated One day seminar on “principles and applications of CFD and modern controls” organized by SVPCET on 22 February 2014.*
- *V.Gnanaprakash participated One day seminar on “principles and applications of CFD and modern controls” organized by SVPCET on 22 February 2014.*
- *N.Sreedhar participated One day seminar on “principles and applications of CFD and modern controls” organized by SVPCET on 22 February 2014.*

- *Acted as Chair (Judge) at “DYNAMECH’S-2014” A NATIONAL LEVEL TECHNICAL SYMPOSIUM conducted by JNTUCEA, Anantapuram on 16th march 2014*

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CONFERENCES:

- *D.Sudhakara participated" REVIEW OF RESEARCH TRENDS & PROCESS PARAMETRIC OPTIMIZATION OF WIRE ELECTRICAL DISCHARGE MACHINING (WEDM)” at International National conference, ICAMS-2014 on Jan 9th to 11th 2014, conducted by VCE, Hyderabad*

Technical Paper:

- *REDUCING RESOURCES USE, WASTE EMISSION WITH GREEN MANUFACTURING*

The paper covers a survey of literature and cases on Green Manufacturing: the methods of manufacturing that minimize waste & pollution and conserve resources. The review of literature on Green manufacturing gives different Green designs based on environment management system, energy conservation, development of cleaner products, waste and pollution reduction. The literature is also available that advocate green manufacturing as an instrument for sustainable infrastructure. New concepts like green accounting are emerging that reflect the true welfare by incorporating the cost of ecological damages and resource depletion.

The cases of Indian and foreign industries covered under the paper, unveil some new aspects like green supply chain and value chain transition as in corrugated cardboard industry, role of public policy in commercialization of green technology as observed in US wind and gas turbine projects. The cases of varied approaches to green manufacturing with conventional objectives of cost reduction, resource conservation and pollution control have been covered from different chemical and automobile sectors. The extension of green manufacturing to buildings and architecture opens new avenues where green manufacturing can foray.

Imagination is more important than knowledge. Knowledge is limited. Imagination encircles the world.

-Albert Einstein.

Chief Editor: Mr. D.SUDHAKARA

M.Tech (PhD)

HOD & Associate Professor

Editors : Mr. N.SREEDHAR

M.Tech

Assistant Professor

Mr. V.GNANAPRAKASH

M.Tech

Assistant Professor

Nice Stories:

- *Once, all villagers decided to pray for rain, on the day of prayer all people gathered and only one boy came with an umbrella*

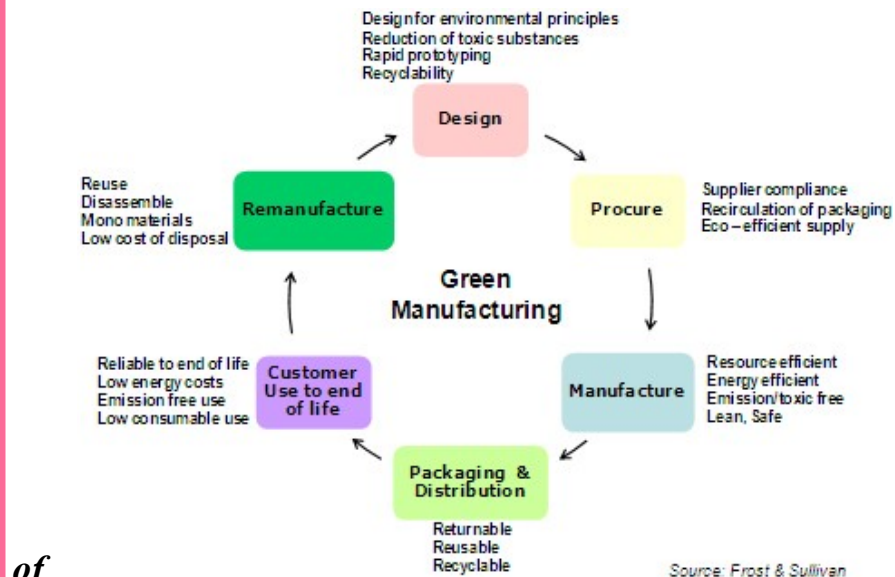
'That's Faith'

- *Feeling of a One Year old baby. When you throw him in the air, he laughs because he knows you will catch him.*

'That's Trust'

- *Every night we go to bed, we have no assurance to wake up alive the next morning but still we set alarm for tomorrow*

'That's Hope'



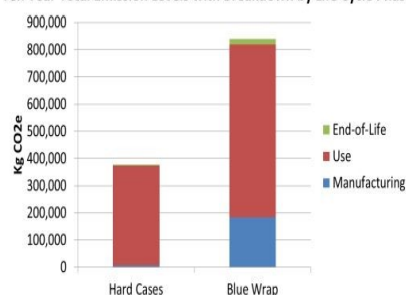
Source: Frost & Sullivan

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*Training
the team
the tech-*

niques of total quality management would certainly help. Green manufacturing is likely to be an increasingly important issue because it is a crucial component in the international trend towards 'sustainable development'. Sustainable development has been a long term goal to meet the needs of the current generation by developing systems and processes that do not compromise the needs of future generations. Achieving this will require interdisciplinary co-operation between politicians, economists, scientists and engineers.

Ten Year Total Emission Levels with Breakdown by Life Cycle Phase



Ten Year Solid Waste Comparison

