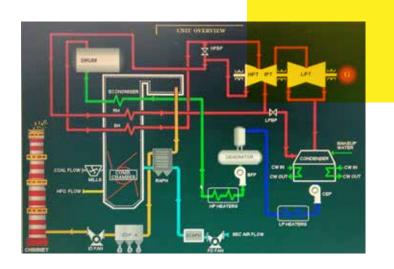
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Methods in Improving the Efficiency of Lignite Fired

Boiler in TPS-II

NLC India Limited

PROJECT MEMBERS

Mugilan M

Revanth M

Selvamuthukumaran K S

Sivakumar J

GRANTS RECEIVED

Design and Fabrication of Solar Air Dryer with Auto-Tracking

MAS Solar Systems, Coimbatore.

Duration : 4 months

Amount Received : Rs 30,000

Mr.S.N.Vijayan Mr.T.Gunasekaran Mr.B.Manup

ABOUT THE DEPARTMENT



The Department of Mechanical Engineering has been a part of Karpagam Institute of Technology (KIT), one of the top Engineering Institutes in Tamil Nadu, offering an undergraduate degree program (B.E. Mechanical Engineering) since 2009. The Department of Mechanical Engineering is fully committed to creating engineering talent for the Industry and the Community. It has highly qualified, experienced and devoted faculty members as well as a dynamic environment for research activities headed by Professors with Ph.D. degree from prestigious Universities. At the moment, six faculty members are actively involved in research to get their Doctoral degree. The Department has built state of the art facilities to spread emerging advancements by including software for cutting-edge technologies in the fields of Computer Aided Design and Manufacturing. The projects and hands-on training activities are intended to instill an entrepreneurial mindset in students and encourage them to start their own enterprises.

FROM HoD's Desk

Mechanical Engineering is the largest of the engineering disciplines and a large number of mechanical engineers go into manufacturing of computer and electronic products, machinery and transportation equipments. The department cares for student support, mentoring, tutoring, study skills workshops and career development. Mechanical Engineering students culminate their studies with a year-long capstone project requiring design problem solving, creative thinking, project planning and teamwork. A broad selection of technical electives encourages students to pursue special interests in design and manufacturing, energy and environmental issues, thermal and fluid sciences materials, dynamics & controls and robotics.



PROGRAMS ORGANIZED

Understanding basic concepts of research and its Methodologies

Chief guest Dr.RajeshRanganathan, Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology on 20.01.2020 Coordinator

Mr.P.Prakash AP/Mech Mr.S.Rajendran AP/Mech

Intellectual Property and Public Policy Issues

Chief guest Dr. B. Senthilkumar, Associate Professor, Department of Mechanical Engineering, Kumaraguru College of Technology on 19.02.2020 Coordinator

Mr. S.N.Vijayan AP/Mech Mr.R.RameshBabu AP/Mech

INNOVATIVE PROJECT

Performance Analysis of Steam Turbine in TPS-1 Expansion (2x210 MW) NLC India Limited

PROJECT MEMBERS

M.Abinesh

R.Balraj

K.Kaviraj

M.ManojPrabhakar



Author Name R.RAMESHBABU, B.BABU, R.HARIKRISHNAN, S.MIDHUN, K.S.NAVIN	Title of the Paper Effect and optimization of machining parameters on MRR & SR for monel 400 material using Taguchi method Published Journal StudiaRosenthaliana (Journal for the Study of Research) Published on January 2020	
	Title of the Paper Enhancement of Productivity in Pump Industry Using Taguchi Optimization Technique Published Journal StudiaRosenthaliana (Journal for the Study of Research) Published on January 2020	Author Name V.KAVINRAJ R.MEENAKSHI, G.MAHESH, P.SATISHKUMAR, VIJAYAN.S.N
Author Name G.JAYABALAJI , S.N.VIJAYAN , N.SUBRAMANI	Title of the Paper Characterization of Aluminium Hybrid Composite Reinforced with Rice Husk Ash and Molybdenum Disulfide Processed through Compo Casting Published Journal Test Engineering and Management Published on April 2020	
	Title of the Paper Investigation on welding strength of fsw samples using Taguchi optimization technique Published Journal Journal of Critical Reviews Published on 21.05.2020	Author Name A. DANIEL DAS, S.N. VIJAYAN, N. SUBRAMANI
Author Name P SATISHKUMAR N NATARAJAN	Title of the Paper Investigation of process parameters by abrasive assisted electrochemical micro drilling process on AI - 6061with SiC and Fly ash composites Published Journal	

Materials Science and Engineering - IOP

Published on 2020



VISION

To create innovative, entrepreneurial and socially committed Mechanical Engineers to meet industrial demands.

MISSION

CORE COMPETENCY

Developing core competency in Mechanical Engineering through state-of-the-art facilities and effective teaching practices.

RESEARCH AND ENTREPRENEURSHIP

Encouraging and nurturing research potential and promoting entrepreneurial endeavors.

SOCIAL RESPONSIBILITY

Instilling social and ethical values through extension activities.

MAR,

TECHIE'S DREAMS NEWS LETTER

The TECHIE'S DREAMS is a report containing news concerning the activites (Developmental Activites, Achievements of students and faculty members, curricular, co-curricular activites) of the Department of Mechanical Engineering. it is published twice in a year by the Association of Mechanical Engineering Students (Mechnovatorz). The newsletter includes Alumini messages to the current students of the Department.



Success usually comes to those who are too busy to be looking for it.

Title of the Paper

Tribological characteristics of powder metallurgy processed Cu- WC/SiC metal matrix composites

P.SATISHKUMAR, **Published Journal**

R.MEENAKSHI, S.N.VIJAYAN

Author Name

G.MAHESH,

Materials Today: Proceedings - Elsevier

Author Name Mr.S.N.VIJAYAN	Title of the Paper A Study on Ballast Water Management System to Reduce Pollution in Oceansipsum Published Journal International Journal of Mechanical and Production Engineering Research and Development Published on Jun 2020	
	Title of the Paper Parametric Optimization on Wear Behaviour of Rice Husk-MoS2 Reinforced AI MMC by Taguchi Approach Published Journal Test Engineering and Management Published on March - April2020	^{Author Name} N.SATHISHKUMAR , K.P.HARSHAVARDHAN, R. MURUGAN
Author Name Mr.S.N.VIJAYAN	Title of the Paper Characterization of Aluminium Hybrid Composite Reinforced with Rice Husk Ash and Molybdenum Disulfide Processed through Compo Casting Published Journal Test Engineering and Management Published on April 2020	
	Title of the Paper Investigation of process parameters by abrasive assisted electrochemical micro drilling process on AI-6061 with SiC and Fly ash Composites Published Journal IOP Conf.Series: Materials science and Engineering Published on March - April2020	Author Name P.SATISHKUMAR, N.NATARAJAN
Author Name A.J. INFANT JEGAN RAKESH	Title of the Paper Minimizing the Temperature in Turning of Bagasse Ash And Graphite Reinforced Aluminium Composite Published Journal Journal of Critical Reviews	

Published on 16 May 2020

THE 10 BIGGEST FUTURE TRENDS IN MANUFACTURING

02.5G & edge computing

04. Digital twins

07. Robots and cobots

08.3D printing

03. Predictive maintenance

01. The Industrial Internet of Things (IIoT) 05. Extended Reality and the metaverse 06. Automation and dark factories 09. Web3 and blockchain technology 10. Smarter, more sustainable products

FACULTY MEMBER ONROLL

2020

Participation in National & International Conferences

S.N	D. FACULTY MEMBERS	DESIGNATION
1	Dr.P.Manimaran M.E. Ph.D. MBA	Professor
2	Dr.S.Krishnakumar M.E. Ph.D	Professor
3	Dr.Goshteeswaran M.E. Ph.D.	Associate Professor
4	Mrs.R.Meenakshi M.E. Ph.D.	Associate Professor
5	Mr.A.Saiyathibrahim M.E.	Assistant Professor
6	Mr.S.N.Vijayan M.E.	Assistant Professor
7	Mr.N.suresh M.E.	Assistant Professor
8	Mr.K.MadhanMuthu Ganesh M.E.	Assistant Professor
9	Mr.P.Madhankumar M.E.	Assistant Professor
10	Mr.T.Gunasekaran M.E.	Assistant Professor
11	Mr.K.P.Harshavardhan M.E.	Assistant Professor
12	Mr.K.Santhosh M.E.	Assistant Professor
13	Mr.P.Prakash M.E.	Assistant Professor
14	Mr.U.M.Saravanan M.E.	Assistant Professor
15	Mr.R.Ramesh Babu M.E.	Assistant Professor
16	Mr.K.R.Senthilkumar M.E.	Assistant Professor
17	Ms.S.Karthika M.E.	Assistant Professor
18	Mr.V.Velarasan M.E.	Assistant Professor
19	Mr.A.Prabhakaran M.E.	Assistant Professor
20	Mr.M.Sujith M.E.	Assistant Professor
21	Mr.P.Sathishkumar M.E.	Assistant Professor
22	Mr.A.J.InfantJeganRakesh M.E.	Assistant Professor

Mr. A.SAIYATHIBRAHIM

AP/Mechanical Engineering

International Conference on Materials Science and Manufacturing Technology

Workshop on Future Scope of Electrical Vehicle

Mr.M.SUJITH AP/Mechanical Engineering

International Conference on Materials Science and Manufacturing Technology

Mr.A.J.INFANT JEGAN RAKESH AP/Mechanical Engineering

International Conference on Materials Science and Manufacturing Technology

Mr.S.KARTHIKA

AP/Mechanical Engineering

International Conference on Materials Science and Manufacturing Technology

Mr.P.SATISHKUMAR AP/Mechanical Engineering

International Conference on Materials Science and Manufacturing Technology

Mr.R RAMESH AP/Mechanical Engineering

International Conference on Materials Science and Manufacturing Technology

Mr.K.R SENTHILKUMAR AP/Mechanical Engineering

International Conference on Materials Science and Manufacturing Technology

Mr.K.P HARSHAVARADHAN

AP/Mechanical Engineering

International Conference on Materials Science and Manufacturing Technology

Mr.P.PRAKASH

AP/Mechanical Engineering

Workshop on National Inititative for technical Teachers Training

Workshop on Additive Manufacturing

Workshop on Corrosion its Control

Workshop on Challenges & Opportunities in FSW of Mg Alloys

Workshop on Introduction to "CRASH Analysis

Workshop on Introduction to "LaTeX

2019

Participation in National & International Conferences

Mr. A.SAIYATHIBRAHIM

AP/Mechanical Engineering

International Conference on Latest Trends in Science, Engineering and Technology

Mr.T.GUNASEKARAN

AP/Mechanical Engineering

International Conference on Latest Trends in Science, Engineering and Technology

Mr. P.PRAKASH

AP/Mechanical Engineering

International Conference on Latest Trends in Science, Engineering and Technology

Mr. N.HARIHARAN

AP/Mechanical Engineering

International Conference on Latest Trends in Science, Engineering and Technology

Mr. N.SRITHAR AP/Mechanical Engineering

International Conference on Latest Trends in Science, Engineering and Technology

Mr.K.P HARSHAVARADHAN **AP/Mechanical Engineering**

International Conference on Latest Trends in Science, Engineering and Technology

Mr.N.SURESH **AP/Mechanical Engineering**

International Conference on Latest Trends in Science, Engineering and Technology

Mr.S.N.VIJAYAN **AP/Mechanical Engineering**

International Conference on Latest Trends in Science, Engineering and Technology

Workshop on Research Challenges and Opportunities in Advanced **Computational Fluid Dynamics for Engineering Applications**

Workshop on Research Perspectives on "Futuristic Energy Materials and **Energy Storing Systems**

Workshop on Startup in Welding Technology

3D PRINTING TECHNOLOGY

3D printing, also known as additive manufacturing, is a method of creating a three dimensional object layer-by-layer using a computer created design.

3D printing is an additive process whereby layers of material are built up to create a 3D part. This is the opposite of subtractive manufacturing processes, where a final design is cut from a larger block of material. As a result, 3D printing creates less material wastage.



at Mechatronics Lab

STUDENTS ACHIEVEMENTS

Best Team Award among the first time participants

Our college Formula Green Team (BRUTALE MOTOR SPORTS) has secured Best Team Award among the First Time Participants also congratulated for the Low Cost Formula Vehicle Fabrication @Karimotor speedways by ISNEE. Event date: 10th Feb 2020 – 14th Feb 2020 Anna University Inter Zonal Tournament Winner (2019-2020) – Takewondo 3rd Place.

Mr.P.PRAKASH

Assistant Professor, Mechanical Engineering, has completed NPTEL course in Principles of casting Technology.

Mr. A.J INFANT JEGAN RAKESH

Assistant Professor, Mechanical Engineering, Received a certificate for completion of Moodle Test for Teachers Training, conducted by IIT Bombay.



Mr.M.PRADEEP

Assistant Professor, Mechanical Engineering, has achieved Elite category for the NPTEL course of Advance Machining Processes.

He Received a certificate for completion of Moodle Test for Teachers Training, conducted by IIT Bombay.

DON'T WAIT FOR OPPORTUNITY,

FACULTY ACHIEVEMENTS

our faculty members are involved in conversations with students, exchanging ideas with their peers and business leaders, and global community. We believe faculty members are the core of our school. Hence, we motivate them to learn and update their knowledge.

Mr.A.SAIYATHIBRAHIM

Assistant Professor, Mechanical Engineering, has been awarded Doctoral Degree.

Mr.S.N.VIJAYAN

Assistant Professor, Mechanical Engineering, has published a book "Parabolic Trough Collector and its

Mr.R.RAMESHBABU

Assistant Professor, Mechanical Engineering, Received a certificate for completion of Moodle Test for Teachers Training, conducted by IIT Bombay.

he has completed NPTEL course in Principles of casting Technology.

has completed NPTEL course in Engineering Metrology.









A.P.ARUN

It's been fortunate to be a part of the KIT, Bareilly where I got the platform to enrich my skills and henceforth abright light towards my life, with the support and endeavor of my faculty members all the way with my family.

ALAGAPPAN.A.L

I am thankful to all the faculty members of the College for their continuous efforts and support. Apart from excellent academic experience, I also gained the benefits of being a part of Cultural Student' body. I cherish every moment spent at Karpagam Institute of Technology.

TAMILARASU.R

I would always be grateful to Karpagam Institute of Technology for giving me multi dimensional learning by providing the mix ofacademics, industry exposure, attitude and leadership. I would also like to thank to the faculty members. The faculty members are all dedicated experts and helpful in their respective subjects. I will always cherish the feeling of studying at an institute which focused on career enhancements along with overall skill development.

PRAVEEN KUMAR.A

It is a great privilege for me to be an alumnus of karpagam Institute of Technology, Coimbatore. I began my B.E. course unaware of what I wanted to pursue next. I really thank all the Professors of the Department of Mechanical Engineering for helping me to achieve excellence in engineering education, which allowed me to identify and pursue my interest in research, to learn something new, to hone my problem-solving skills andto challenge myself in new ways.

ASSOCIATION CONVENOR

Mr. N.SURESH

HoD / Mechanical Engineering Karpagam Institiute of Technology.



EVEN SEMESTER



NEWS LETTER

TECHIE'S DREAMS 2019-2020

FACULTY COORDINATORS

Mr.A.SAIYATHIBRAHIM AP/MECH Mr.S.N.VIJAYAN AP/MECH

STUDENT COORDINATOR

SARAN. J RAHUL. S

ASSOCIATION PRESIDENT

P.PRAVEEN KUMAR

EDITING TEAM MEMBERS

SABARESH. S VEERAKARTHICK. V

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DEPARTMENT OF MECHANICAL ENGINEERING

VOL 01 ISSUE 01