

ALMANAC

MECHANICAL ENGINEERING DEPARTMENT – NEWS LETTER

FROM THE EDITOR'S DESK

Warm greetings! I take immense pleasure and privilege to pen a few words for our college Newsletter. A recap of all the activities and programmes that were conducted during the academic year 2018-2019 is presented in this edition. Eminent speakers from industries, premier institutions and professional academies were invited to share their valuable experience and knowledge with our anxious students. With razor sharp perfection, all these activities were unitedly conducted by a team of energetic, enthusiastic faculty of our department. We are highly indebted to the invaluable assistance and support extended by the Management, Principal, department staff, office staff and other for all our entire endeavors.



HOD/MECH

Department of Mechanical Engineering
Hindusthan College of Engineering and
Technology
Valley Campus, Pollachi Highway
Coimbatore-32



DEPARTMENT VISION

To provide quality technical education in Mechanical Engineering and build holistic professionals who can excel in the engineering establishments and serve for the country with ethical values

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

NEW FACULTY JOINED

The department recruited several well qualified faculties in the academic year 2018-2019. The new teaching faculty who joined our department are,



Mr. K.MAHARAJA
Assistant Professor



Mr.S.RAMKUMAR
Assistant Professor

FACULTY ACHIEVEMENTS & ACTIVITIES

S.No	Nature of activity	Participant	Duration
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DEPARTMENT OF MECHANICAL ENGINEERING

1	Recognized as a visiting faculty to Satbayev University, Almaty Republic of Kazakhstan for handling classes to Master Degree students on the field of 'Renewable Energy and Heat Pump Systems' during since 19.12.2018	Dr.M.Mohanraj	Since 19.12.18
2	Guest editor for a special issue on Thermal Analysis and Energy Systems in Journal of Thermal Analysis and Calorimetry.	Dr. M.Mohanraj	2018 onwards
3	Guest editor for the special issue on 'Environment Friendly Refrigerants' in Journal of Process Mechanical Engineering published by SAGE publishers. (Paper review process completed and published online) awaiting volume and issue no. allocation.	Dr.M.Mohanraj	2018 onwards

PROGRAMMES CONDUCTED



Organized Two days workshop
On “The art of writing winnable project proposal for funding & Intellectual Property Rights & Innovations” on 7/9/2018 & 8/9/2018
Chief Guests

Dr.M.KANTHA BABU,Ph.D
Professor & Director Centre of Intellectual Property right (CIPR), College of Engineering Guindy,
Anna University, Chennai.



The department organized one day seminar on “Opportunities in Petroleum Technology in abroad countries”.



A team of Mechanical Engineering students secured four first prizes at the “RALLY CAR DESIGN CHALLENGE” competition held at Bikaner Thar Desert, Rajasthan.



A team of Mechanical Engineering students was acknowledged with various awards for their topnotch performance in “EFFICYCLE 2019” Electric-tricycle competition held at Lovely Professional University, Jalandhar, Punjab.

PAPERS PUBLISHED BY FACULTY

Name of the Faculty	Title of Paper	Date of Publication	Name of Journal
Dr. M.Mohanraj	Research and Developments on Solar assisted Compression heat pump Systems – A Comprehensive review (Part-A: Modeling and Modifications)	2018	Renewable and Sustainable Energy Reviews
	Research and Developments on Solar assisted Compression heat pump Systems	2018	Renewable and Sustainable Energy Reviews
	Exergy analysis direct expansion solar assisted heat pumps working with R22 and R433A.	2018	Journal of Thermal Analysis and Calorimetry
Dr.P.Jeyalakshmi	Characterization of Simarouba glauca seed oil biodiesel	2018	Journal of Thermal Analysis and Calorimetry
Dr.C.Nithyanandam	Investigations on Aircraft Landing Schedule using Opposition Based Particle Swarm Optimization Technique	2018	Journal Of Applied Sciences Research
	Research on aircraft landing schedule using opposition-based genetic algorithm with Cauchy mutation	2018	Int. J. Business Intelligence and Data Mining
Mr.S.Sivakumar	Growth, vibrational, optical, thermal, magnetic & dielectric behavior of organo-metallic tetramethylammonium cadmium chloride crystal	2018	Journal of thermal analysis & calorimetry

BOOK PUBLISHE BY FACULTY

S.No	Name of the Faculty	Name of the Book
1	Dr.R.Arulkumar	Engineering practice laboratory, ISBN: 978-93-85374-11-1,Prathiba publisher
2	Dr.C.Nithyanandam	Mechanics for Engineers - ISBN 978-93-528-6574-1, Pearson India

Value added course offered

Sl.No	Year	Name of the Course
1	III YEAR	NX UNIGRAPHICS
2	IV YEAR	HVAC

DOCTORAL DEGREE AWARDS

Heartfelt congratulations to our faculty on their completion of PhD.



Dr.V.Senthil Murugan
(IC Engines)

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