



# Dr. NGP INSTITUTE OF TECHNOLOGY COIMBATORE-641048

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## DEPARTMENT OF MECHANICAL ENGINEERING



### *The Mech Book 2015-2016*

#### *This issue covers*

*News from Technical Associations*

*Notable Events*

*Faculty Achievements*

*Students Participation*

#### **Editorial Board Chief**

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#### **Editors:**

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Professor, Mech

**Mr.A.G.Karthikeyan**  
AP/ Mech



*News Letter: Volume 3 Issue 2 (Jun 2016)*

## **ABOUT THE DEPARTMENT**

The Department of Mechanical Engineering possesses good infrastructural facilities, 12-equipped laboratories, 27 highly qualified and dedicated teaching faculties, 10 experienced Lab technicians and the atmosphere conducive for research activities. Out of 27 teaching faculties 4 of them have completed their PhD and 7 faculties are pursuing their Ph.D. Mechanical Engineering includes design, development, manufacture, management, and control of engineering systems, subsystems and their components. Typically, manufacturing, power, aerospace, automotive, materials, and processing industries employ Mechanical Engineers. As a result of the recent rapid expansion of technology, Mechanical Engineers also have become increasingly involved in computer aided design and visualization; robotics; bioengineering; environmental engineering; solar, wind, ocean energy sources and space exploration.

## **VISION**

The Department of Mechanical Engineering aims to accomplish excellence in transforming students into qualified, self-driven engineers and researchers with moral values.

## **MISSION**

- ❖ To provide quality education through pedagogical tools with qualified personnel and state-of-the-art laboratories.
- ❖ To enrich knowledge through value added courses, professional bodies, research publications and industry connect.
- ❖ To empower the graduate in personality towards industrial challenges and societal growth.


## **QUALITY POLICY**

Our Policy is to develop highly skilled human resources with the ability to adopt to an Intellectually and Technologically changing environment through Innovative Teaching and Learning Methods.

## **FACULTY LIST**

### **TEACHING STAFF**

### **NON TEACHING STAFF**

S.No	NAME	DESIGNATION	S.No	NAME	DESIGNATION
1	Dr. V.S. Sree Balaji	Professor & Head	1	Mr. S.Jayakumar	Lab.Technician
2	Dr. K. Kalaiselvan	Professor	2	Mr. R.Meenachisundaram	Lab.Technician
3	Dr.S. Kalidass	Professor	3	Mr. A.Saravanakumar	Lab.Technician
4	V.M. Manivasagam	Associate Professor	4	Mr. S.Kuppuraj	Lab.Technician
5	Dr. R. Ravikumar	Associate Professor	5	Mr. Y.Selvanesan	Lab.Technician
6	Mr. A. Selvaraj	Associate Professor	6	Mr. A.Prabhu	Lab.Technician
7	Mr. T. Sivakumar	Associate Professor	7	Mr. S.Thangavelu	Lab.Technician
8	Mr. S. Venkatesan	Associate Professor	8	Mr. P.shanmugaprabhu	Lab.Technician
9	Mr. V. Sivaraman	Assistant Professor	9	Mr. A. Murugesan	Lab.Technician
10	Mr. M. Nallusamy	Assistant Professor	10	Mr. S. Gurusamy	Lab.Technician
11	Mr. P. Gopikrishnaan	Assistant Professor	11	Mrs.Meena	Office P.A.
12	Mr. A. Jaganathan	Assistant Professor			
13	Mr. N. Senthilprabhu	Assistant Professor			
14	Mr. K. Gopinath	Assistant Professor			
15	Mr. N. Manikandan	Assistant Professor			
16	Mr. P. Vijayakumar	Assistant Professor			
17	Mr. V.P. Pradeep	Assistant Professor			
18	Mr. A. Vijay anandh	Assistant Professor			
19	Mr. P. Ashok kumar	Assistant Professor			
20	Mr. A G. Karthikeyan	Assistant Professor			
21	Mr. K. Kiran	Assistant Professor			
22	Mr. S. Srinathkumar	Assistant Professor			
23	Mr. R. Karthikeyan	Assistant Professor			
24	Mr. M. Suriyaprakash	Assistant Professor			
25	Mr. S. Rajkumar	Assistant Professor			
26	Mr. S. Ramkumar	Assistant Professor			
27	Mr. M. Mani	Assistant Professor			

**MECHANICAL ENGINEERING**  
**Faculty Team with 2015-2016**  
**Batch Students**

## PROGRAMS ORGANISED

### INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN DESIGN, AUTOMATION AND INTELLIGENT SYSTEMS



The Department of Mechanical Engineering has organized an International Conference on Recent Advancements in Design, Automation and Intelligent Systems (ICRADAIS 2K15) on 24.03.16. The conference was

inaugurated by the honorable chief guests Dr. Pinnamaneni Bhanu Prasad, Research Director, Kelenn Technology, France at 9.30 am and delivered the inaugural address. Dr. Kua-Ann Techato, Deputy Dean, Research and Academic, Prince of songkla University, Thailand was the Guest of Honor. Dr. Rajesh Ranganathan, Associate Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore has given a keynote on the conference. Dr. V. S. Sreebalaji, Professor and Head, Department of Mechanical Engineering, has



given the welcome address to the gathering. Dr. K. Kalaiselvan, Professor, Department of Mechanical Engineering, presented the conference theme. The honorable chairman Dr. Nalla G. Palaniswami, KMCRET and the beloved

secretary Dr. Thavamani D. Palaniswami, Dr. NGP Institute of Technology delivered the presidential address. The felicitation address was given by Dr. O.T. Buvaneshwaran, CEO, KMCRET and Dr. K. Porkumaran, Principal, Dr. NGP Institute of Technology. Nearly 130 delegates from various institutions of different regions participated in the International Conference and presented their papers. The vote of thanks was given by Dr. K. Ravikumar, Associate Professor, Department of Mechanical Engineering.

### **Guest Lectures delivered from an external Eminent Person**

<b>S. No.</b>	<b>Date</b> (dd/mm/yyyy)	<b>Organising Department</b>	<b>Guest Name with Designation</b>	<b>Organization</b> (company name and place)	<b>Topic</b>
1	02/02/16	Mech	Mr. Sagar Metha,	Institute of Industrial Design, CADD Centre	Product Analysis and Computational Fluid Dynamics
2	18/02/2016	Mech	Dr. S. Vengadesan, Professor & Head	Applied Mechanics, IIT Madras	Fundamentals and Applications of Fluid Mechanics & Higher Education Opportunities
3	24/03/2016	Mech	Dr. Bhanu Prasad Pinnamaneni, Director (R&D)	Keleenn Technology, France	Conference Chair- International conference on Recent Advancements in Design, Automation and Intelligent Systems
4	24/03/2016	Mech	Dr. Kua-Anan Techato, Deputy Dean	Research & Academic, Prince of Songkla University, Thailand	Guest of Honor - International Conference on Recent Advancements in Design, Automation and Intelligent Systems
5	24/03/2016	Mech	Dr. Rajesh Ranganathan, Associate Professor	Mechanical Engineering, CIT, Coimbatore	Keynote Speaker- International Conference on Recent Advancements in Design, Automation and Intelligent Systems

## JOURNAL PUBLICATIONS BY FACULTIES

S. No	Author Name	Title of the Paper	Name of the Journal & Publisher	International / National & ISSN	Vol., Issue, Page No	Month/ Year
1	RAM KUMAR S	COMPUTATIONAL STUDY OF FINS BY MODIFYING ITS STRUCTURE AND AREA OF HEAT TRANSFER USING ANSYS	International Journal of Modern Trends in Engineering and Science	International & 2348-3121	Vol.02 Issue 08	2015
2	RAM KUMAR S	Performance and Emission Characteristic Studies of Diesel Engine Fuelled with Neem Oil	International Journal of Mechanical Engineering and Research & Research India Publications	International 0973-4562	Vol. 5 No.1	2015
3	DR.K.RAVI KUMAR & DR.V.S.SREEBALAJI	Analysis of Kerf Width and Cutting Speed Characteristics of Aluminium/ Tungsten Carbide Composites	Journal of Mineral Metal and Material Engineering	International & Anna University Annexure - II	Vol.1,pp. 47-56 2015,	2015
4	DR.K.RAVI KUMAR & DR.V.S.SREEBALAJI	Desirability based multiobjective optimisationOf abrasive wear and frictional behaviour of aluminium (Al/3.25Cu/8.5Si)/ fly ash composites	Tribology - Materials, Surfaces & Interfaces	International Anna University Annexure - II	Vol.9(3), pp.128-136, 2015	2015

## Conference publication by faculties

S.No.	Author Name	Title of the Paper	Name of the conference and Publisher	National / International
1	S.VENKATESAN	A Review on Nano Materials in Mechanical Design	International Conference on Recent Advancements in Design, Automation and Intelligent Systems - Dr.NGPIT	International
2	Dr. S KALIDASS	Development of Mathematical Model for surface roughness in end milling  Process using AISI 304 steel with solid carbide tools	International Conference on Recent Advancements in Design, Automation and Intelligent Systems - Dr.NGPIT	International
3	Dr.K.RAVIKUMAR & MR.K.KIRAN	A Review on Mechanical and Tribological Characteristics of Stir Cast Aluminum Metal Matrix Composites.	International Conference on Recent Advancements in Design, Automation and Intelligent Systems - Dr.NGPIT	International
4	S. KALIDASS	Investigation of the Effect of Shot Peening Process on the Corrosion Characteristics of Aluminium 2024-T3 Alloy	International Conference on Recent Advancements in Design, Automation and Intelligent Systems - Dr.NGPIT	International
5	Dr. K.KALAISELVAN	The Effect of Friction Powder Processing(FPP) on Microstructure and Mechanical Characteristics of sicp Reinforced Aluminium Alloy	International Conference on Recent Advancements in Design, Automation and Intelligent Systems - Dr.NGPIT	International

6	S.RAJKUMAR	Strategic Supply Chain Design for Customised Diabetic Foot Wear	International Conference on Recent Advancements in Design, Automation and Intelligent Systems – Dr.NGPIT	International
7	DR.K.KALAISELVAN	Real time analysis of assembly line Using pert and cpm	International conference on recent advancements in design, automation and intelligent systems – Dr.NGPIT	International
8	S.RAJKUMAR	Tank Cleaning Equipment for Heavy Machines	International Conference on Recent Advancements in Design, Automation and Intelligent Systems – Dr.NGPIT	International
9	Dr. K.RAVI KUMAR	Abrasive water jet machining in composite Materials-the review	International conference on recent advancements in design, automation and intelligent systems – Dr.NGPIT	International
10	A.G.KARTHIKEYAN, Dr.K.KALAISELVAN, S.SRINATH KUMAR, M.SURIYA PRAKASH	Optimization of wedm input process parameters on Monel k500 superalloy by taguchi method	International conference on recent advancements in design, automation and intelligent systems – Dr.NGPIT	International
11	M.NALLUSAMY , K.KALAISELVAN	PRODUCTION AND CHARACTERIZATION OF IN-SITU zrb2 REINFORCED AA7075 METAL MATRIX COMPOSITES	International Conference on Recent Advancements in Design, Automation and Intelligent Systems – Dr.NGPIT	International
12	R.KARTHIKEYAN	Replacement of natural bones and skull system By carnioplast implant using rapid prototyping Technique	International conference on recent advancements in design, automation and intelligent systems – Dr.NGPIT	International



## Faculties Participations in Seminars/Workshop/Conferences

S.No.	Date (dd/mm/yyyy)	Department	Faculty Name	Program Details	Organizer (Institution Name, Venue)
1.	15.12.15- 19.12.15	Mech	Mr. S. Srinath Kumar	FDP on AutoCAD	ICTACT
2.	19.01.16- 20.01.16	Mech	Dr. V. S. Sree Balaji	FDP on Emotional Intelligence	ICTACT
3.	19.01.16- 20.01.16	Mech	Dr. K. Ravikumar	FDP on Emotional Intelligence	ICTACT
4.	19.01.16- 20.01.16	Mech	Mr. A. Vijayanandh	FDP on Emotional Intelligence	ICTACT
5.	19.01.16- 20.01.16	Mech	Mr. S. Ramkumar	FDP on Emotional Intelligence	ICTACT
6.	22.01.16- 23.01.16	Mech	Mr. S. Srinath Kumar	Workshop on Mathematical Modelling for Engineering Research	Bannari Amman Institute of Technology, Sathyamangalam.
7.	22.01.16- 23.01.16	Mech	Mr. V. P. Pradeep		
8.	22.01.16- 23.01.16	Mech	Mr. M. Surya Prakash		
9.	27.02.16	Mech	Mr. M. Mani	Workshop on Research Colloquium on Processing and Characterization of Engineering Materials at.	Dr.MCET, Pollachi
10.	10.03.16- 11.03.16	Mech	Mr. R. Karthikeyan	Seminar on Nanobiomaterials	AURC, Coimbatore
11.	10.03.16- 11.03.16	Mech	Mr. K. Kiran	Seminar on Nanobiomaterials	ICTACT

## Lectures delivered to the other institutes, conference chair, etc.

S.No.	Date (dd/mm/yyyy)	Department	Faculty Name	Details (Program name, Intuition name, Venue)
1	04.02.16	Mech	Dr. V. S. SreeBalaji	Presented about Creativity & Innovation at PSG Tech, CBE
2	04.02.16	Mech	Dr. V. S. SreeBalaji	Presented about New Age Entrepreneurship & Buisness Ideas at KCT, CBE
3	12.02.16	Mech	Dr. V. S. SreeBalaji	NAAC Mock Inspection to EGS Pillai Engg College, Nagapattinam.

## VALUE ADDED COURSES

S.No.	Date (dd/mm/yyyy)		Department	Course Name	MoU Partner Name , details	No. of Students
	From	To				
1	9.12.15	11.12.15	Mech	C Programming	ECE Dr.NGPIT	140
2	10.03.16	17.03.16	Mech	CMM Level II	Hexagon Metrology Pvt Ltd	134

## STUDENTS ACHIEVEMENTS IN SPORTS

S.No.	Date (dd/mm/yyyy)	Student Name	Department	Sports Activity (Activity Name/Intuition name, Venue)	Prize / Awards
1	01.04.16-03.04.16	DHANUSH M	Mech	FOOT BALL TOURNAMENT at PSG COLLEGE OF TECHNOLOGY, CBE	I Place
2		HARI VIGNESH	Mech		
3		LAMBERT GODWIN D	Mech		
4		VIGNESH KUMAR B	Mech		

**STUDENTS ACHIEVEMENTS AND PARTICIPATION IN VARIOUS EVENTS**

S. No	STUDENT NAME	DEPARTMENT	EVENT NAME	PARTICIPATION	DATE AND VENUE
1	ATHMANATHAN V	MECH	GO-KART	PARTICIPATED	12.02.2016- 15.02.2016 & KARI MOTOR SPEED WAYS
2	ARUN J				
3	ANATHA KUMAR A				
4	AADITHYA S B				
5	AADHIKA A				
6	GOWTHAM G				
7	GOKUL ANAND V				
8	JACK ASHWIN G				
9	GOWTHAM G				
10	JAWAGAR SHREHARI J				
11	KARTHICK K				
12	KARTHIKEYAN P				
13	KARTHICK M				
14	MADHAN KUMAR J				
15	PUVIYARASU S A				
16	RAAGUL SRINIVASAN K A				
17	RAGUL SINGH F				
18	SREEDHAR RAJA S				
19	KARTHIKEYAN V				
20	VIMALAN K				

21	GOWTHAM G	MECH	INTER ENGINEERING TOURNAMENT	4 <sup>TH</sup> PRIZE	27.02.2016-14.03.2016 & TAMIL NADU COLLEGE OF ENGINEERING
22	SABARI RAJAN.S	MECH	KCT MINI DIRT BIKE	PARTICIPATED	05.03.2016 & KUMARAGURU COLLEGE OF TECHNOLOGY
23	SOORIYA PRASATH S	MECH			
24	SUNDHAR PRASANTH J	MECH			
25	VISHNU VARADHAN A	MECH			
26	SATHISH KUMAR I	MECH			
27	PRAVEEN KUMAR J	MECH			
28	SUBAH T	MECH			
29	SRINATH P	MECH			
30	PRAVEEN KUMAR J	MECH			
31	SATHISH KUMAR L	MECH			
32	VETRIVEL S	MECH	AERO DESIGN CHALLENGE	2 <sup>ND</sup> PRIZE	17.03.2016 - 19.03.2016 & HINDUSTAN INSTITUTE TECHNOLOGY
33	PRASANTH S				
34	THARAMENDRAN				
35	SUMITH SURENDRAN				
36	SETHU RAMASAMY P				
37	SURIYA KUMAR P				
38	SURESH KUMAR S				
39	THAMIZHANBAN M				
40	SRINIVASAN V				
41	PRASANTH M				

42	MANOJ KUMAR K	MECH	AERO DESIGN CHALLENGE	PARTICIPATED	17.03.2016 - 19.03.2016 & HINDUSTAN INSTITUTE TECHNOLOGY
43	GOWTHAM DAS				
44	BOOPATHI R				
45	KARTHICK S				
46	DINESH E				
47	DINESH KUMAR R				
48	MANOJ KUMAR D				
49	JAWAHAR R				
50	JUSTIN JAMES				
51	IMRAN M				
52	PRAVEEN KUMAR J	MECH	GO-KART	PARTICIPATED	18.03.2016 - 21.03.2016 & LOVELY PROFESSIONAL UNIVERSITY
53	NISHAR AHAMED N				
54	SANTHOSH S				
55	ANANDHA KUMAR M				
56	VIGNESH KUMAR B				
57	SUNDHAR PRASATH J				
58	SRINATH P				
59	MANOJ KUMAR K				
60	ANDY MAHESHWARAN GOWSHIHAN				
61	DINESH E				
62	AJITH KUMAR				
63	VIGNESSH B				
64	SURESH P				
65	SOORIYA PRASATH S				
66	JUSTIN JAMES				

67	KAVIRAJAN S				
68	GANGADHARAN P				
69	JAWAGAR SREHARI J				
70	DINESH KUMAR R				
71	KUMARESAN S				
72	PRASANTH M	MECH	RE-MODEDLLEING DIRT BIKE EVENT	2 <sup>ND</sup> PRIZE	23.03.2016 & KARPAGAM UNIVERSITY
73	SATHISH KUMAR L				
74	VISHNU VARADHAN A				
75	SUBASH T				
76	VISHNU VARADHAN A	MECH	RE-MODEDLLEING DIRT BIKE EVENT	PARTICIPATED	23.03.2016 & KARPAGAM UNIVERSITY
77	SATHISH KUMAR L				
78	SABARI RAJAN S				
79	SUBASH T				

**STUDENTS PARTICIPATIONS IN SEMINARS / CONFERENCES / WORKSHOP**

S.No.	Date (dd/mm/y yyy)	Department	Student Name	Details of Event (Topic, Institution name, Venue)	Prizes / Awards
1	5.02.16	Mech	Vignesh B	Half Stone Memories, Techkosmos'16 at SREC, CBE	III Place
2	5/03/2016	Mech	Sabarirajan.S	Mini Dirt Bike -2016 competition, KCT, CBE	Best Innovator Award
3			Subash T		
4			Praveen Kumar J		
5	17/03/16- 19/03/16	Mech	Sumith Surendran	SAEINDIA Aero Design Challenge 2016 at RAMA Flying Field & Hindustan University, Chennai.	II Place - Best Flight Award – Regular Class Category
6			Vetrivel S		
7			Prasanth S		
8			Tharmendran S		
9			Sethu Ramasamy P		

10	17/03/16- 19/03/16	Mech	Manoj Kumar K	SAEINDIA Aero Design Challenge 2016 at RAMA Flying Field & Hindustan University, Chennai.	Design Award – Micro Class Category
11			Gowtham Das S		
12			Boopathi R		
13			Karthick S		
14			Dinesh E		
15			Design Kumar R		
16			Manoj Kumar D		
17			Jawahar R		
18			Justin James		
19			Imran M		
20	18/03/16- 21/03/16	Mech	Justin James	International GoKart Championship LPU SAEINDIA Collegiate Club, LPU, Punjab	Best Build Quality Award
21			Sooriya Prasanth S		
22			Suresh P		
23			Vignesh B		
24			Ajith Kumar S		
25			Dinesh E		
26			Andy Maheshwaran Gowshihan		
27			Manoj Kumar K		
28			Srinath P		
29			Sundaraprasanth J		
30			Vignesh Kumar B		
31			Anandakumar M		
32			Santhosh S		
33			Praveen Kumar J		
34			Dinesh Kumar R		
35			Kumaresan S		
36			Nishar Ahamed N		
37			Jawahar Srihari J		
38			Gangadharan P		
39	Kavirajan S				

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