

Department of Mechanical  
Engineering

# NEWSLETTER

2013-2014

VOLUME - 2

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IV<sup>th</sup> Year B-Section

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III<sup>rd</sup> Year A-Section

# VISION AND MISSION OF THE DEPARTMENT

## **Vision:**

To transform students from rural background into professional leaders of tomorrow in the field of Mechanical Engineering with a strong sense of social commitment.

## **Mission:**

To impart quality – engineering education leading to specialization in the emerging areas of CAD/CAM/CAE, Energy Engineering and Materials Technology

To provide continually updated and intellectually stimulating environment to pursue research and consultancy activities

## Programme Educational Objectives (PEOs)

The graduates will:

**PEO1.** Technical Expertise: Actively apply technical and professional skills in engineering practices towards the progress of the organization in competitive and dynamic environment.

**PEO2.** Lifelong Learning: Own their professional and personal development by continuous learning and apply the learning at work to create new knowledge.

**PEO3.** Ethical Knowledge: Conduct themselves in a responsible, professional and ethical manner supporting sustainable economic development which enhances the quality of life.

# Programme Outcomes (POs)

At the end of the Mechanical Engineering programme, graduating students / graduates will be able to:

**PO1.** Engineering knowledge: Apply the fundamental knowledge of mathematics and engineering sciences to solve of mechanical engineering problems.

**PO2.** Problem analysis: Identify, survey literature, formulate and analyse complex mechanical engineering problems and reach substantiated conclusions.

**PO3.** Design/development of solutions: Design mechanical components, processes and systems that meet the requirements with due consideration for environment and public health / safety including cultural and societal considerations.

**PO4.**Conduct investigations of complex problems: Design experiments analyse/interpret data and synthesize information to provide valid conclusions in the field of mechanical engineering.

**PO5.**Modern tool usage: Apply appropriate techniques including usage of IT tools for prediction and modelling to create and evaluate mechanical engineering systems and their limitations.

**PO6.**The engineer and society: Practice as professional mechanical engineer to discharge responsibilities by taking informed decisions based on contextual knowledge to assess societal, health, safety, legal and cultural issues.

**PO7.**Environment and sustainability: Demonstrate the knowledge of, and need for sustainable development by understanding the impact of the professional engineering solutions in societal and environmental contexts.

**PO8.**Ethics: Comply with code of conduct/norms and professional ethics in engineering practices.

**PO9.**Individual and team work: Perform effectively as an individual and member / leader in multidisciplinary diverse teams.

**PO10.**Communication: Effectively communicate both orally / written on complex engineering activities.

**PO11.**Project management and finance: Manage projects in multidisciplinary environments cost effectively.

**PO12.**Life-long learning: Learn and acquire up to date knowledge in the field of mechanical engineering independently.

## Staff Development Programmes

### Continuing Education Programs/Faculty Development Programmes/Conferences/Seminars/Workshops/Short Term Training Courses etc...

Dept.	Name of the Coordinator(s) with Designation	Title	Conducted at (Venue)	No. of Participants attended	Date(s)
Mechanical	T.Kasirajan M.Padmanaban Sreejith S.Nair M.C.Chandrasekar	Students Talent Pool Development Programme	TUV Welding Centre	30	30.01.14 to 31.01.14

### Professional Society/Department Association/Guest Lectures organized

Dept.	Co-ordinator / Co-coordinator with Designation	Details of Program	Date
Mechanical	MECHANICA Association	Alumni Interaction	25.01..14

## Students Activities

### Participation of Inter and Intra Collegiate Competition/Events by the Students

S.No	Student's Name	Branch and Department	Details of event & Prize if any	Organizer and Place of program	Date
1	N.C.Aakash	II Mech "A"	Paper Presentation/ 2 <sup>nd</sup> Prize Aero Modeling / 1 <sup>st</sup> Prize	S.K.C.E.T Coimbatore	31.01.14
2	Hari Shankar.K S.Boopathi R.Divakaran R.Ragunathan N.Jagath Vishnu	III Mech "A"	Circuitrix/ 3 <sup>rd</sup> Prize CAD Modelling Line Follower Robot Quiz		

## Participation in Seminar/Conference/Workshop/Training etc... by the Students

S.No	Student's Name	Branch and Department	Details of Event	Organizer and Place of program	Date
1	S.Prasanna Kumar B.Tamilselvan	IV Mech	IELTS / Personnel Guidance Programme	Col's CALIBRE, Coimbatore	25.01.14
2	T.Soorya R.Rajkamal	IV Mech	International Conference on Recent Advances in Physics for Interdisciplinary Developments	Sathyabama University , Chennai	

## Extra-Curricular / Co-curricular Activities

### Physical Education Activities

S.No	Students Name	Year & Dept.	Events Details	Awards / Medals (if any)	Date of the Event
1	G.Surender A.Manokar S.Surya Prakash M.Muneeswaran	III Year	CDCA CRICKET Tournament	Participated	27,29,30.01.14
	S.Sethupathi K.Maheshboopathi A.Prakash R.Abishek	II Year			

### Consultancy

Dept.	Name of the Faculty (s)	Title of the Consultancy Work	Name of the organization / Firm/ Company	Period of Consultancy
Mechanical	Dr.RamaThirumurugan Mr.K. Prabhu	Converter Trolley Chassis Design	Sakthi Sugars Ltd	14.01.14

## Name and Address of Distinguished Visitors

S. No	Name of the Visitors	Organization & Address	Purpose	Date of Visit
1	Dr. K.Subramanian	Professor of Mechanical Engineering Government College of Engineering Srirangam - BIT Campus Trichy - 620024	4rd Board of Studies Meeting	25.01.14
2	Dr. K. A. Jagadeesh	Associate Professor/ Mechanical Engg PSG College of Technology, Coimbatore – 641 004		
3	Dr. A. Arockiarajan	Assistant Professor Dept. of Applied Mechanics, Indian Institute of Technology Madras, Chennai – 600 036.		
4	Dr. G. Balamurugan	Scientist & Group Head, MDG-Structures Division National Aerospace Laboratories(NAL), Bangalore - 560017		
5	Dr. N.L.Parthasarathi	Scientific Officer D Room No:224, MDL Building IGCAR, Kalpakkam Tamil Nadu -603 102		
6	Dr.G.Balakrishnan	Engineering Team Leader Caterpillar India (PVT) Ltd. Engineering Design Centre IIT Madras Research Park 7th Floor, No. 1, Kanagam Road, Taramani, Chennai- 600113		

## Staff Development Programmes

### Participation in Seminar/Conference/Workshop/Training etc...

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
	Mr.M.Chandrasekaran, AP Mr.T.Kasirajan , AP	HYPERWORKS Training	ALTAIR Centre	10.02.14 and 11.02.14
	Mr.E.Baskaran, AP Mr.T.Kasirajan AP Mr.M.Chandrasekaran , AP Mr.Sreejith.S.Nair AP Mr.S.MuthuBaskaran , AP	MATLAB Training	EEE Simulation Lab	13.02.14 and 14.02.14
	Mr.M.Giridharadhayalan, AP Mr.M.Padmanaban, AP Mr.K.Sivakumar, AP	PLC Training	Electrical Seminar Hall	12.02.14 and 13.02.14
	Mr.R.Bupathi AP(SG) Mr.M.Padmanaban, AP Mr.Sreejith.S.Nair,AP Mr.M.Neelavannan, AP Mr.S.MuthuBaskaran , AP Mr.M.Chandrasekaran, AP	Orientation Workshop on LINUX	Networking Programming lab	17.02.14
	Mr. N.Shanmugasundaram, AP Mr. M.Padmanaban, AP Mr.M.Selvakumar, AP Ms. N.Saranya, AP	"Automotive Simulation Software of Lucas Nulle " Training program	MCET- TUV Advanced Training centre	18.02.14 to 20.02.14
	Mr. Sreejith.S.Nair,AP Mr.T.Kasirajan AP	Orientation Workshop on Spoken Tutorial	QIC & FDC of MCET	26.02.14
Mechanical Engineering	Dr.I.Rajendran HOD/Mech Mr. M.Neelavannan, AP Mr. M.Padmanaban, AP Mr. V.Varathrasan,AP Mr. R.Ganesh, AP Mr. K.Vijayakannan, AP Mr. N.Santhosh, AP Mr.M.Selvakumar, AP	Workshop on E-Filing of Income Tax  Benefits of Housing loan & Its procedures	ISTE MCET Staff Chapter	26.02.14

## College Events held

S.No	Details of the Event	Date held
1	UDDESHA 2014 Paper Presentation (Mechanical Seminar hall ) Bottle Rocketry (Cricket Ground) Clash of Robots(C Block) Gusto(Quarter angle C Block) JUNKYARD	20.02.14
2	Mr. Mechanica Freezing Demon	21.02.14

## Participation of Inter and Intra Collegiate Competition / Events by the Students

S.No	Student's Name	Branch and Department	Details of event & Prize if any	Organizer and Place of program	Date
1	Final Year Students:  Karthik.S (10BME122) Prabinraj.M(10BME138) Suresh.K.T(10BME140) Praveenkumar.R(10BME154) Vijaykumar.P(10BME184) Divakaraprabhu.T(10BME206) Mohan.A(10BME215) Karthik.D(10BME277)  Pre-Final Year Students:  Pavithran.K.C (11BME68) Sathiyaraj.S(11BME96) SahulHameed.M(11BME98)	B.E Mechanical	SAE BAJA 2014	SAE , Indore , Madhya Pradesh	19.02.14 to 25.02.14
2	B.Karthikeyan(12BME042)	II B.E Mechanical	TIES Volley Ball Tournament	Kongunadu Engineering College , Namakkal	17.02.14 and 18.02.14
3	S.Elanthendral(12BME027) P.Rajaji (12BME318)	II Mech A III Mech B	TIES Hand Ball Tournament	Kongunadu Engineering College , Namakkal	14.02.14 and 18.02.14

## Participation in Seminar/Conference/Workshop/Training etc...

S.No	Student's Name	Branch and Department	Details of Event	Organizer and Place of program	Date
1	Final Year Students	B.E Mechanical Engineering	"Building an Enterprise"	EDC Development Cell	24.02.14

## Students Club Activities (Eco Club, Quiz Club, Rotaract etc...)

Club Name	Program Name	Co-ordinated by	No. of Participants	Date of the event
GYAN Quiz Club	Technical Quiz	S.P.Srinivasan II Mech B V.Sivaguru II Mech B	15	01.02.14

## NSS Activities

Name of the Students	Degree Studying	Branch	Programmes Organized / Conducted / Participated	Venue	Date (s)
S.Pasumpondasan(12BME064) R.Vinoth(12BME110) R.Vishnuraj(12BME113) K.S.Sunil(12BME099) V.Vairatamlarasu (12BME102) P.S.Sridhar(12BME094) N.Vignesh(12BME107) S.Naveen(12BME063) R.Raveendar(12BME077) M.Murugan(12BME105) V.Vignesh(12BME108) N.G.Sasidharan(12BME086) G.Thambiselvan(12BME60)	II B.E	Mechanical Engineering	NSS Camp		1.02.14 to 5.02.14

## Staff Development Programmes

### Participation in Seminar/Conference/Workshop/Training etc...

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
Mechanical Engineering	Mr.E.Baskaran/AP Mr.M.Chandrasekar/ A P	CFD (ACU SOLVE) Training	DESIGN TECH , Egmore Chennai	18.03.14 to 20.03.14
	Mr.S.Ayyapan/SG	One Day Co-ordinators Workshop on Fluid Mechanics	IIT,Kharagpur	11.03.14 to 15.03.14
	Mr.M.Chandrsekar/ AP	Electric Solar Vehicle Championship	Lovely Professional University,Punjab	29.03.14 to 31.03.14

### Physical Education Activities

Name	Designation / department	Details of event	Awards/Place	date
N.Shanmugasundaram	AP/ Mech	Sakthi Trophy staff sports & games tournament (cricket)	Winner Kumaraguru college of technology, Coimbatore	18.3.14
T.Kasirajan				
M.Chandrasekaran				
M.Giridaradhayan				

## Students Activities

### Awards – Academic by the Students

Name of the Student	Degree Studying	Branch	Name of the Award	Awarded by (Name of the Organization)	Purpose of Award	Date of Awarded
Vainathayamalan	B.E	Mechanical Engineering	Best Out Going Student of the Academic Year	Dr.Mahalingam College of Technology	Academic Performance	22.03.04
Dineshkumar.P Vainathayamalan.V Prabhudeva.V Mohammedfarrok.N	B.E	Mechanical Engineering	100% Attendance 2013-14	Dr.Mahalingam College of Technology	Academic Performance	22.03.04

## Paper Presentation by the Students

S.No	Student's Name	Branch and Department	Title of Paper Presented	Organizer and Place of program	Date
1	Sadaam Hussain H Selladurai D	B.E Mechanical Engineering	Role of Cloud Computing in Agile Manufacturing	Anna University (BIT Campus, Trichy)	22.03.04
2	N.Ranjith	B.E Mechanical Engineering	-	NIT Trichy, PRODIGY'14	15-16.03.14

## Participation of Inter and Intra Collegiate Competition / Events by the Students

S.No	Student's Name	Branch and Department	Details of event & Prize if any	Organizer and Place of program	Date
1	Vignesh B Vinoth R Sudharsan K Pavithran B	B.E Mechanical Engineering	Contraption Event Pragyam 14	Conducted by NIT Trichy	07.03.04
2	VishnuRaj R VairaTamilarasu V Muthu Kumar M Pasumpondasan S	B.E Mechanical Engineering	Skit/Mime Utsav14	Conducted by SNS College of Technology Coimbatore.	07.03.04
3	N.Ranjith	B.E Mechanical Engineering	DA VINCI Pragyam 14	Conducted by NIT Trichy	07.03.04
4	Raveendar.R Siva.S	B.E Mechanical Engineering	Reading Carnival 2014	Dr.MCET, Pollachi	03-08.03.04
5	SanthoshKumar.S Raja.M Ramesh.K	B.E Mechanical Engineering	ARIENKRIEG 14	Kumaraguru College of Engg & Tech, Coimbatore	15.03.04

## Participation in Seminar/Conference/Workshop/Training etc... by the Students

S.No	Student's Name	Branch and Department	Details of Event	Organizer and Place of program	Date
1	Sreedev .P.S Vaishak.P	B.E Mechanical Engineering	Work Shop on IC Engines	IIT Madras	23.03.04
2	S.Dharani Kumar H.Kishore	B.E Mechanical Engineering	National Conference on "RASET 2014"	Jai Sriram Group of Institutions, Tirupur	20-21.03.14

## Industrial Visits / Tour

S. No	Dept.	Class	Place of Industrial Visit	Total No. of Students Visited	Date
1	B.E Mechanical Engineering	II Mech B	Shakti Soyas and Shakti Milk , Pollachi	70	12.03.04

## Extra-Curricular / Co-curricular Activities

### Physical Education Activities

S.No	Students Name	Year & Dept.	Events Details	Awards / Medals (if any)	Date of the Event
1	B.Karthikeyan	II Mech	Sakthi trophy volleyball tournament	-	4.3.14 to 5.3.14
2	V.Ganeshkumar P.Deenathayalan	IV Mech II Mech	Sakthi trophy kabadi tournament		
3	S.Balamurugan	IV Mech	Sakthi trophy ball badminton tournament		
4	S.Gowtham raj N.Arun Prakash Nikhil Joseph Charles	IV Mech I Mech	Sakthi trophy basketball tournament		
5	S.Bharathan	III Mech	Sakthi trophy badminton tournament		
6	T.Aravinth T.Amarnath	III Mech	Sakthi trophy kho-kho tournament		
7	S.Vinothkumar	IV Mech	Sakthi trophy table tennis tournament		
8	P.Rajaji S.Elanthendral E.Kathires	III Mech II Mech I Mech	Sakthi trophy hand ball tournament		
9	J.Bhuvanesh C.Naveenkumar V.Arunvignesh J.Joe Xavier Deepak B.Ruthrakumar K.C.Pavithran S.Roopanvinayak M.Pradeep	IV Mech III Mech	Sakthi trophy foot ball tournament		

	Suriyakirubakaran P.Saravanan	I Mech		
10	Muthukumar	IV Mech	Sakthi trophy athletes meet 2013-14	17.3.14 to 18.3.14
	Boopathiraj	III Mech		
	Santhosh	II Mech		
	Saravanan	I Mech		

**Staff Development Programmes****Participation in Seminar/Conference/Workshop/Training etc...**

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
Mech	C.Selvasenthilprabu R.Bupathi	Workshop on "Engineering Failure Analysis"	Amirtha school of Engineering	26.4.14
	K.Vijayakkanan N.Shanmugasundaram T.Kasirajan	PLM training	SIEMENS Centre, MCET	21.4.14 to 2.5.14

**Participation of MCET Faculty as Resource Person**

Dept.	Name of the Faculty with Designation	Title of the Programme	Details & Venue	Date
MECH	Dr.RamaThirumurugan	Applied Finite Element Analysis using ANSYS	Einstein College of Engineering, Tirunelveli	5.4.14

**College Events Held**

S.No	Details of the Event	Date held
1	Farewell day function for 2010 batch students	30.4.14

**Students Activities****Participation of Inter and Intra Collegiate Competition / Events by the Students**

S.No	Student's Name	Branch and Department	Details of event & Prize if any	Organizer and Place of program	Date
1	K.S Sunil	Mech II yr	Electric-Solar Vehicle Championship-2014 Best Design Innovation Award	Lovely Professional University, Jalandhar, Punjab	20.3.14 to 3.4.14

## Industrial Visits / Tour

S. No	Dept.	Class	Place of Industrial Visit	Total No. of Students Visited	Date
1	Mech	III yr A & B	Hyundai motors Precision Equipments Schwing Stetter	130	29.4.14 to 30.4.14

## Career Planning and Guidance (CPG)

### Placement Details

S.No	Name of Student Placed	Name of the Company Visited in current month	Total No. of Students placed in each Company	Date
1	Ramesh Kumar	Hepatica Technologies	1	22.4.14

## Research and Development

### Consultancy

Dept.	Name of the Faculty (s)	Designation	Title of the Consultancy Work	Name of the organization / Firm/ Company	Amount	Period of Consultancy	
						From	To
CDAT	Dr.RamaThirumurugan Mr.S.Madhusudhanan	Associate prof. Assit.Prof.(SS) Senior Executive	1.GM-M200 Static test 2.Renault-A-Entry TRA Fatigue 3.GM-M2XX TRA Fatigue	SACL	-	March - 14	Apr - 14

Staff Development Programmes

Continuing Education Programs/Faculty Development Programmes/Conferences/Seminars/Workshops/Short Term Training Courses etc...

Dept.	Name of the Coordinator(s) with Designation	Title	Conducted at (Venue)	Sponsored by	No. of Participants attended	Date(s)
Mechanical	Mr.S.Ayyappan, Assistant Professor (SG)	ISTE sponsored main workshop on Fluid Mechanics	IIT - Bombay Remote Center MCET	Indian Institute of Technology, Kharagpur  MHRD, Govt. of India under the NMEICT mission	33	20.5.14 to 30.5.14
	Dr.RamaThirumurugan Associate Professor C.Selva Senthil Prabhu Assistant Professor	National Conference on Materials & Mechanical Engg NCMME-14	Mechanical Seminar Hall	MCET	50	02.05.14 & 03.05.14

Participation in Seminar/Conference/Workshop/Training etc...

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
Mechanical	Mr .C. SelvaSenthilPrabhu Mr.M.Giridharadhayalan, Mr.M.Padmanaban, Mr.K.Vijayakkannan, Mr.SreejithS.Nair Mr.M.Chandrasekaran, Mr.P.Anbarasu, Mr.S.MuthuBaskaran Mr.N.Santhosh, Mr.K.Sivakumar, Mr.S.Gnanakumar, Mr.T.Vignesh Kumar Mr.R.Ganesh	ISTE sponsored main workshop on Fluid Mechanics	MCET	20.5.14 to 30.5.14
	Dr.I.Rajendran Dr.R.Ravindran Dr.RamaThirumurugan, Mr.M.Selvakumar	Workshop on curriculum planning	MCA seminar hall MCET	19.05.14 to 30.05.14

# Consultancy

Dept.	Name of the Faculty (s)	Designation	Title of the Consultancy Work	Name of the organization / Firm/ Company	Amount	Period of Consultancy	
						From	To
Dr.RamaThirumurugan Mr.S.Madhusudhanan	Associate prof. Assit.Prof.(SS) Senior Executive	Renault-A-Entry multi axis phase 1 Fatigue	SACL	-		02.05.14	25.05.14



**National  
Conference on  
Materials &  
Mechanical Engg  
NCMME-14**