

Dr. MAHALINGAM



COLLEGE OF ENGINEERING AND TECHNOLOGY

Enlightening Technical Minds

**Dr. MAHALINGAM**  
COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous  
Institution

Affiliated to Anna University, Chennai. Approved by AICTE.  
Accredited by NBA and NAAC with Grade A

Udumalai Road, Pollachi - 642 003. Tamilnadu.

Department of Mechanical  
Engineering

**NEWSLETTER**

2014-2015

VOLUME - 1

# EDITORIAL BOARD

## PATRONS

Dr.M.Manickam

Chairman, MCET

Mr.M.Harihara Sudhan

Correspondent, MCET

Prof.C.Ramaswamy

Secretary, NIA Educational Institutions

## ADVISORY COMMITTEES

Dr.S.Vijayarangan

Director (Academic)

Dr.M.Ramakrishnan

Principal

Dr.I.Rajendran

Head of Department

## FACULTY COORDINATORS

Mr.M.Selvakumar

Assistant Professor (SG)

Mr.S.Gnanakumar

Assistant Professor

## EDITORS

M.Sangeeth Kumar

II<sup>nd</sup> Year A-Section

D.K.Nigesh

I<sup>st</sup> Year B-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.

# Programme Outcomes (POs) Regulation 2014

- PO1. Apply scientific principles and concepts in design and development of products and manufacturing processes.
- PO2. Analyze the systems' behavior and optimize for the results using modeling, simulation and experiments.
- PO3. Design products and manufacturing facilities that deliver the requirements of the target customers and desired quality functions.
- PO4. Identify, formulate, and solve engineering problems using appropriate tools and techniques.
- PO5. Check and improve the DFX-assembly, manufacture, cost, quality, reliability, serviceability, recyclability etc.
- PO6. Face challenges with rigor and emotional stability
- PO7. Demonstrate understanding of the dynamic industrial and business environment in which the products are designed, manufactured and sold.
- PO8. Practice Ethical responsibility
- PO9. Work effectively in teams and build/manage interpersonal relationships
- PO10. Communicate effectively through oral, non-verbal and written means.
- PO11. Plan and work to time
- PO12. Learn continuously

## Programme Specific Outcomes (PSOs)

- PO13. Develop and maintain positive health - physical, mental and social wellbeing
- PO14. Articulate and engage in pursuit of career and life goals
- PO15. Develop adaptability to change

## 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. C. Selva Senthil Prabhu	Advanced Faculty Development Program on "INDUSTRIAL AUTOMATION TECHNOLOGIES" "AFTP 14"	MCET – BOSCH REXROTH	MCET	15	09.06.14 to 14.06.14

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

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
Mechanical	Mr.S.Madhusudhanan	"Advancement of Mechanical Engineer to meet global challenges"	NIT - Trichy	13.06.14
	Dr Rama Thirumurugan			To 15.06.14
	Ms .N.Saranya	Advanced Faculty Development Program on "INDUSTRIAL AUTOMATION TECHNOLOGIES" "AFTP 14"	MCET – BOSCH REXROTH	09.06.14 to 14.06.14
	Mr.M.Neelavannan	TEQUIP-II Sponsored Faculty Development program on "Advanced Welding Engineering & Technology"	CIT - Coimbatore	02.06.14 to 09.06.14
	Mr.E.Baskaran	NRC-M Workshop on Molecular Dynamics and Monte Carlo Methods	IISc - Bangalore	22.06.14 to 27.06.14
	Mr.K.VijayaKannan	Hypermesh Training-India Altair Technology Conference Series (ATCx)	ALTAIR Technology-The Westin, Chennai.	06.06.14

## Papers Presented in International Conference/Seminar/Symposium/Workshop

Dept.	Name of the Author(s) with Designation	Title of the Paper Presented	Title of the Conference / Seminar	Conducted by	Conducted at (Venue)	Date(s) of Paper Presented	Proceedings page(s) nos.
Mech	Mr.S.Madhusudhanan	"Static Analysis Of Automotive Steering Knuckle"	International mechanical engineering congress	Mechanical Engineering	NIT - Trichy	13.06.14 To 15.06.14	-
	Dr Rama Thirumurugan	" Crack propagation path study based on load sharing behavior of spur gear drives"					
	M.Selvakumar	"Design and Analysis of Asymmetric Spur gear Drive for Automobile gear box Application"					
		Synthesis and characterization of Ti-TiB composites processed through vacuum sintering					

### Consultancy

Dept.	Name of the Faculty (s)	Designation	Title of the Consultancy Work	Name of the organization / Firm/ Company
Mechanical	Dr.RamaThirumurugan Mr.S.Madhusudhanan	Associate prof. Assit.Prof.(SS)	Static Test FORD B517-Knuckle Model K Knuckle YL8 Knuckle A-entry Multi Axle Fatigue Test Phase-IV	SACL, Erode

### Name and Address of Distinguished Foreign Visitors

Name of the Foreign Visitors	Area of Specialization	Designation	Organization & Address	Purpose of Foreigner Visit (with Full details)	Period of Stay
STEFANO CARRARA	-	-	LUCA BOSCHI FABIO DIONOFRIO CARLOITA GENTILE ITALY	CDAT	02.06.14

## JULY 2014

### Participation in Seminar/Conference/ Workshop/Training etc. by MCET Staff

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
MECH	Mr.M.Chandrasekaran	Workshop on pressure vessels	NIT-Trichy	04.07.14 to 05.07.14
	Mr.M.Padmanaban	Updating Curriculum in EPL	GDTTI- Cbe	25.07.14

### 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	R.Raman Sankar	B.E II Year A Sec / Mech	Vedic Quiz	ISKCON	12.07.14

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

S.No	Total No. of Students	Branch and Department	Details of Event	Place of program	Date
1	74	IV year BE MECH	Infosys pre placement talk	MCET	11.07.14

### In-Plant Training by the Students

Dept.	Student Name / Total No. of Students & Branch	Place of In-plant Training	Period of Training (Date(s))
BE Mech III Year B Sec	K.S Sunil R.Vinoth	TVS Ashok Leyland , Salem	27.06.14 To 02.07.14



### Industry-Institute Interaction Activities

S.No	Name of the faculty	Purpose of visit	Company visited	Date
1	Dr. I. Rajendran Mr. D.Shanmugam Mr. M. Selvakumar Mr. N. Santhosh	Internship & Industrial project	Bimetal Bearings, Coimbatore Roots Industries Pvt. Ltd, Coimbatore Tea Krafts Pvt. Ltd, Coimbatore	28.07.14

### Consultancy

Dept.	Name of the Faculty (s)	Designation	Title of the Consultancy Work	Name of the organization / Firm/ Company	Period of Consultancy
Mechanical	Dr.RamaThirumurugan Mr.S.Madhusudhanan	Associate prof. Assit.Prof. (ss)	Steering Knuckle Multi axis test (Phase IV & V)	Renault Nissan	July 2014

### Name and Address of Distinguished Foreign Visitors

Name of the Foreign Visitors	Area of Specialization	Designation	Organization & Address	Purpose of Foreigner Visit (with Full details)	Period of Stay
Regina Mara Gralguio	Customer Relation		Brazil	CDAT	July 2014

## Staff Development Programmes

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

Dept.	Name of the Coordinator(s) with Designation	Title	Conducted at (Venue)	Sponsored by	No. of Participants attended	Date(s)
Mechanical	Mr.D.Shanmugam	Promotion of Students Wellness	CS Hall	MCET	150	25.08.14 to 28.08.14

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

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
Mechanical	Dr.Ramathirumurugan Mr.N.Shanmugasundaram Mr.E.Baskaran Mr.N.Santhosh Mr.M.Arun MrP.Pasupathy	Introspection Course (Promotion of Students Wellness-yoga & meditation)	CS Hall, MCET	25.08.14 to 28.08.14
Mechanical	Mr.M.Nelavannan	QUAD-Torc (ATU car racing event-final round)	SRM university – NCR Campus	28.07.14 to 11.08.14

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

Dept.	Co-ordinator / Co-coordinator with Designation	Details of Program	Date
Mechanical	Mr.M.Selvakumar Mr.S.Gnanakumar	MECHANICA- Inauguration	21.08.14

## Papers Presented in International Conference/Seminar/Symposium/Workshop

Dept.	Name of the Author(s) with Designation	Title of the Paper Presented	Title of the Conference / Seminar	Conducted by	Date(s) of Paper Presented
Mech	Mr.M.Selvakumar	Evaluation of Mechanical Properties of Ti-TiB Composite through Nano Indentation Technique	ICIDRT-14	Professional Group of Institution - Palladam	22.08.14

## Paper Published in International Journals

Dept.	Name of the Author(s) with Designation	Title of the Paper	Title of the Journal	Volume	Page(s) No
Mech	Dr.I.Rajendran	Mass Loss Prediction Of Newly Developed Aluminum-Based Alloys Using Artificial Neural Network	Neural Network World	24	129-142

## 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	Rahul Javeri.S Rajapandi.M Gobikannan.P Hariharan.T M.Tamilvendan Vishnuraj.R	III Yr and IV Yr B.E Mech	QUAD – TorcEvent (ATU car racing event-final round)	SRM University NCR Campus	28.07.14 to 11.08.14
2	K.R.VishnuPriyan NavaneedhaKrishnan Barath Kumar Pragadeshwaran	II B.E Mechanical	Drawing Competition	MCET	12.08.14 \ 13.08.14
3	Dhilip.G Gowrishankar.V Madankumar.C	III B.E Mechanical	RC Car race	Kongu Engineering college	15.08.14
				Eshwar Engineering college	16.08.14

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

S.No	Branch and Department	Details of Event	Organizer and Place of program	Date
1	I Year Mechanical Students	Promotion of Students Wellness – Introspection Course	CS Hall - MCET	25.08.14 to 28.08.14

### 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	C.Barath Kumar R.Santhosh Kumar	I Year Mech II Year Mech	Table Tennis Men Toyrnament – SKCT Coimbatore	-	26.08.14

### Career Planning and Guidance (CPG)

#### Details of Training imparted to Students:

S.No	Training	Year/Branch	Date
1	Soft Skill Training	IV Year Mechanical	25.08.14 to 28.08.14
2	Mock Interview	IV Year Mechanical	18.08.14 to 20.08.14

#### Industry-Institute Interaction Activities

S.No	Name of the Faculty	Industry Visited	Purpose of Visit	Date
1	Dr.S.Vijayarangan Dr.I.Rajendran	Amalgamations group of companies Butterfly Gandhimathi Appliances	Students Project	19.08.14 to 20.08.14
2	Mr.M.Selvakumar Mr.T.Kasirajan	Bi-Metal Bearing Ltd, Coimbatore	Students Project, Internship	23.08.14
3	Mr. A. R. Suresh	Sundaram Brake lining Ltd, Virudhunagar	Students Project, Internship	27.08.14
4	Mr. N. Santhosh	Indo Shell Castings	Students Project, Internship	2.08.14

# Consultancy

Dept.	Name of the Faculty (s)	Designation	Title of the Consultancy Work	Name of the organization / Firm/ Company	Period of Consultancy	
					From	To
Mechanical	Dr.RamaThirumurugan Mr.S.Madhusudhanan	Associate prof. Assit.Prof.(SS)	Static Test FORD B517- Knuckle Model K Knuckle YL8 Knuckle A-entry Multi Axle Fatigue Test Phase-IV	SACL Erode	-	-

## MECHANICAL ASSOCIATION FUNCTION CONDUCTED ON 21.08.2014



### Speech by Chief Guest

**Mr.A.Gomathinayagam**  
**Manager, Design & Analysis**  
**Product development centre,**  
**Larsen & Toubro Ltd, Coimbatore**

**Topic: Design verification  
 process for New Product  
 Development**



## Staff Development Programmes

### Participation in Seminar/Conference/Workshop/Training etc. by MCET Staff

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
Mech	1.Dr. S.Vijayarangan Professor 2.Dr. Rama Thirumurugan Associate Professor 3. Mr. K.Prabu Assistant Professor	Visit Bangaluru integrated system solution (BISS), to study hydraulic actuator performance and other testing machines.	Bengaluru	26.09.14

### Faculty deputed for Higher Studies

Dept.	Name of the Faculty with Designation	Program	Field of Specialization	Duration of Program	Institution
Mechanical	Mr.D.Shanmugam	Ph.D	Composites	Completed	Anna University , Chennai

### Paper Presentation by the Students

S.No	Student's Name	Branch and Department	Title of Paper Presented	Organizer and Place of program	Date
1	Pasumpon Dhasan 12BME064 Selladurai 12BME 088	III MECH B	Reduction of CO2 in automobiles Enhancing Agility in Manufacturing	Angel College of Engineering and Technology, Tirupur Angel College of Engineering and Technology, Tirupur	12.09.14

### 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	Balaganesh.L Ashokkumar. P AjanthPravin.S ArunKumar.S	B.E III yr MECH	MADOX 2K14 National level technical symposium RC track race III prize	Akshaya college of engineering and technology, Coimbatore	17.09.14

2	K.Hariprakash K.Deepan G.Divakar R.Elamaran		MADOX 2K14 National level technical symposium RC track race		
3	K.Hariprakash K.Deepan G.Divakar R.Elamaran	B.E III yr MECH	RC nitro racing National level techno fest	Karunya university, Coimbatore	10.09.14
4	Balaganesh.L Ashokkumar. P AjanthPravin.S ArunKumar.S		RC nitro racing National level techno fest I prize	Karunya university, Coimbatore	10.09.14
5	Gokulamuthukrishnan.R	B.E III yr MECH A	CAD modelling	SNS College of Engineering, Coimbatore	05.09.14- 07.09.14

### 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	ShiyamSundar .A Guruprasad.D Nikil Joshep Charles S.Aswin A.Balaji R .Santhosh Kumar DeepakNarayanan	II MECH A	Workshop on" Vehicle Overhauling MARUTHI 800cc"	SRM University, Chennai	10.09.14 & 11.09.14
2	K.S. SUNIL R.VINOTH	III MECH B III MECH B	SAE INDIA SKCET COLLEGIATE EVENTS 2014	Sri Krishna College of Engineering and Technology Coimbatore	19.09.14

### Industrial Visits/Tour

S. No	Dept.	Class	Place of Industrial Visit	Total No. of Students Visited	Date
1	Mech	II BE MECH A	Sakthi diary & soya division	63	11.09.14
2	Mech	II BE MECH B		68	12.09.14
3	MECH	III MECH B	LAKSHMI MACHINE WORKS COIMBATORE	70	20.09.14

## In-Plant Training by the Students

Dept.	Student Name / Total No. of Students & Branch	Place of In-plant Training	Period of Training (Date(s))
1	R.Praveen S.Shameer Mohamed. R.SriDev	Karnesa Consulting Engineers	3

## 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	Aravinth.T	IV MECH	Anna university Zone Kho-Kho Tournament, SVS	-	15.09.14 to 16.09.14
2	Rajaji.P Nivas.B.M Elanthendral.S	IV MECH I MECH III MECH	Anna university Zone Handball Tournament, SKCT	-	13.09.14 to 15.09.14
3	Surrender.G Suriyaprakash.S Muneesswaran.M Sethupathi.s Prakash.A Ananddeva.C	IV MECH IV MECH IV MECH III MECH III MECH II MECH	Anna university Zone Cricket Tournament, PIETECH	-	10.09.14 to 13.09.14
4	Bharathan.S Vishnuraj.R	IV MECH III MECH	Anna university Zone Badminton Tournament, Karpagam college of engineering	-	05.09.14 to 06.09.14
5	Hariharan.J Karthikeyan.B Kumaran.P Divakar.G Dineshkumar.M Nandhakishore.N	IV MECH III MECH III MECH III MECH II MECH I MECH	Anna university Zone volleyball Tournament, CIET,CBE	-	02.09.14 to 03.09.14

## Career Planning and Guidance (CPG)

### Placement Details

S.No	No. of Students Placed upto Previous Month	Name of the Company Visited in current month	Total No. of Students placed in each Company
1	12	INFOSYS	11
		FACE	1



## Details of Training imparted to Students:

### GATE FORUM TRAINING: IV MECH A Section (60 Students)

Thermal Engineering(15.09.2014 to 18.09.2014)

Strength of Materials (20.09.2014 to 21.09.2014)

S.No.	Roll No.	Name	S.No.	Roll No.	Name
1	11BME001	Aakash N C	31	11BME037	Infant Praveen S
2	11BME002	Abdul Shiyam A	32	11BME038	Jagan K
3	11BME004	Amarnath T	33	11BME039	Jayabal R
4	11BME005	Anbu N	34	11BME040	Jayasoundaryan O T
5	11BME007	Arun Karthik R	35	11BME041	Jayendran S V
6	11BME008	Arun Raj B	36	11BME042	Kaarventhan T
7	11BME009	Arunkumar S	37	11BME043	Kalaimani T
8	11BME010	Aswin S	38	11BME044	Kannan J
9	11BME012	Balachandar S	39	11BME045	Karthikeyan S
10	11BME013	BalajiPandithurai S	40	11BME046	Kishor Kumar N
11	11BME014	Banthala Selvan S	41	11BME047	Kumaresh V
12	11BME015	Baranidharan P S	42	11BME048	Loganathan P
13	11BME017	Boopathiraj P	43	11BME049	Logesh Krishnan K
14	11BME018	Chakravarthy S	44	11BME051	Madhubalan S
15	11BME019	Deenadhayalan S	45	11BME052	Maheswaran P
16	11BME021	Dinesh Kumar AK	46	11BME053	ManickaVasagam T
17	11BME022	Dinesh Kumar R	47	11BME054	Manokar A
18	11BME023	Dinesh V S	48	11BME055	Mathialagan P
19	11BME024	Elavarasan S	49	11BME058	Mohammedfarook N
20	11BME025	GauthamSiddarth P T	50	11BME059	Mohankumar N
21	11BME026	Gobi Kannan P	51	11BME060	Muneeswaran M
22	11BME027	Gokul V	52	11BME301	Boopathi S
23	11BME028	Gokulraj S	53	12BME302	Deepakraj A S
24	11BME029	Gopalsamy R	54	12BME304	Divakaran R
25	11BME030	Gowtham K	55	12BME306	Jegathvishnu M
26	11BME032	Gurunathan S	56	12BME313	Muralidharan N
27	11BME033	Hariharan J	57	12BME314	Prabakaran G
28	11BME034	Hariharan T	58	12BME317	Raghunathan R
29	11BME035	Hariprakash N	59	12BME318	Rajaji P
30	11BME036	Harishankar K	60	12BME321	Saththivel S

## GATE FORUM TRAINING: IV MECH B Section (59 Students)

Thermal Engineering(15.09.2014 to 18.09.2014)

Strength of Materials (20.09.2014 to 21.09.2014)

S.No.	Roll No.	Name			
			S.No.	Roll No.	Name
1	11BME063	NAVEEN KUMAR.M	31	11BME098	SETHUPATHI.T
2	11BME064	NAVEEN PRAKASH.K	32	11BME099	SHAHUL HAMEED.M
3	11BME065	NAVIN RAJ.N	33	11BME101	SIVA.S
4	11BME068	PAVITHRAN.K.C	34	11BME102	SRIVISHNUVARDHAN.S
5	11BME069	PRABHU DEVA.V	35	11BME103	SUBASH.S
6	11BME070	PRABHU .K	36	11BME104	SUBBURAMAN.A
7	11BME071	PRADEEP.M	37	11BME105	SUHAILAHAMED.S
8	11BME072	PRAKASH.R	38	11BME106	SURENDER.G
9	11BME073	PRANAV.M	39	11BME107	SURESH KUMAR.S
10	11BME075	RAHUL.I	40	11BME108	SURIYA PRAKASH.S
11	11BME076	RAHUL JHAVERI.S	41	11BME109	TAMIL VENDHAN.M
12	11BME077	RAJA.M	42	11BME110	UDHAYA KUMAR.M
13	11BME079	RAJESH.A	43	11BME111	VARUN KUMAR.R
14	11BME080	RAJ KUMAR.J	44	11BME112	VEERAPUTHIRAN.K
15	11BME081	RAJ PRASATH.K	45	11BME113	VIJAY.K
16	11BME082	RAMESH.G	46	11BME114	VIMAL.S
17	11BME083	RAMESH.K	47	11BME116	VINOTH KUMAR.S
18	11BME084	RANJITH.N	48	11BME117	VISHWANATH.M
19	11BME085	RANJITH KUMAR.V.E	49	11BME118	WINSTON ROY.A
20	11BME087	RUTHRA KUMAR.B	50	11BME119	YOGESH WARAN.J
21	11BME088	SABARI.M	51	11BME120	YUVRAJ KUMAR.G
22	11BME089	SANTHOSH KUMAR.D	52	12BME307	KARTHIKEYAN P
23	11BME090	SANTHOSH.S(8.1.94)	53	12BME308	MAHALINGAM P
24	11BME091	SANTHOSH.S(25.11.93)	54	12BME310	MOHAMED AASHIK L
25	11BME092	SANTHOSH KUMAR.S	55	12BME311	MOHAMED IRSHAD C A
26	11BME093	SARAVANA KUMAR.G	56	12BME315	PRAKASH R
27	11BME094	SATHISH KUMAR.S	57	12BME316	PREM KUMAR S
28	11BME095	SATHISH KUMAR.M	58	12BME320	SATHISHKUMAR B
29	11BME096	SATHYARAJ.K	59	12BME322	SENTHILVELAN A
30	11BME097	SELVA RAJ.C	31	11BME098	SETHUPATHI.T

# Consultancy

Dept.	Name of the Faculty (s)	Designation	Title of the Consultancy Work	Name of the organization	Period of Consultancy	
					From	To
CDAT	1.Dr.Rama Thirumurugan 2.Mr.S.Madhusudhanan 3.Mr.K.Prabu	1.Associate Prof 2.Assistanat Prof(SS) 3.Assistant Prof	1.RNTBCI A-Entry Steering knuckle (200%) Durability test 2.Convertor Design for molten metal handling	SACL	4.09.14  22.7.14	Till going

## Mechanism Making Events for Students held on 15/09/2014



## Staff Development Programmes

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

Dept.	Co-ordinator / Co-coordinator with Designation	Details of Program	Date
Mechanical	Mr.M.Selvakumar AP Mech(SG)	Guest Lectures on 'Mechanism of Farms through Engineering interventions' by Dr.S.JacobK.Annamalai	16.10.14
	Mr.S.Gnankumar AP Mech	VARNAM 2K14 Intra College Symposium TECH-BLAST(prelims,modeling,fabrication)	17.10.14

### Awards – Academic (Including Projects) 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
Vijayananth	B.E	MECH	Best Orator Award	Kumaraguru College of Technology	Youth Assembly Conference meet	10.10.14

### 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	Sudharsan K Sunil K S Shivaguru V Thamaraiselvan G Vainathayamalan V VairaTamilarasu V Vaishak P Veerasekaramoorthy S Veyilumuthu @ Murugan.M Vignesh B Vignesh N Vignesh V Vijaiananth P Sambathkumar R K.S Sunil	III yr MECH	VARNAM 2K14 Intra College Symposium TECH-BLAST(Prelims, Modeling, Fabrication)	MECHANICA - Mechanical Department	17.10.14

R.Vinoth P.S.SreeDev P.Vaishak Muthukumar R Muthukumar M YogeshPrabu G Naveen S				
---	--	--	--	--

S. No	Student's Name	Branch and Department	Details of event & Prize if any	Organizer and Place of program	Date
2	K.Deepan (12BME016) G.Divakar(12BME023) K.Hariprakash(12BME037)	III Yr B.E Mechanical A Sec	Mini Gp- RC Racing Event ATMOS'14 1st Prize	BITS Pilani, Hyderabad	13.10.14 to 14.10.14
3	K.Deepan (12BME016) G.Divakar(12BME023) K.Hariprakash(12BME037)	III Yr B.E Mechanical A Sec	METEORA 16th FUTURA 2nd Prize	Bannari Amman Institute of Tech	09.10.14 to 10.10.14
4	S.Arun kumar(12BME007) S.AjanthPravin(12BME003) L.Balaganesh(12BME010) P.Ashok Kumar(12BME009)	III Yr B.E Mechanical A Sec	METEORA 16th FUTURA 2nd Prize	Bannari Amman Institute of Tech	09.10.14 to 10.10.14
5	S.Arun kumar(12BME007) S.AjanthPravin(12BME003)	III Yr B.E Mechanical A Sec	Mini Gp- RC Racing Event ATMOS'14 2nd Prize	BITS Pilani, Hyderabad	13.10.14 to 14.10.14

### 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	R.VishnuRaj Selladurai	III MECH B	Futura Project Design Contest	Bannariamman Institute of Technology Satyamangalam	10.10.14

### Industrial Visits / Tour

S. No	Dept.	Class	Place of Industrial Visit	Total No. of Students Visited	Date
1	Mechanical	II YR A sec	Sakthi Auto Component Limited , Tirupur	71	28.10.14
2		II YR B sec		70	29.10.14

## Industrial Project by the Students

S. No	Dept. & Class	Title of the Project	Place of Industry	Total No. of Students Visited	Period
1	Mechanical IV Year	General Assembly & base plate generator for WXB pumps	Flow Serve, Coimbatore	A.S.Depakraj O.T.Jayasoundaryan	-
2		Retrieving the test results of HPX & HDX Pumps	Flow Serve, Coimbatore	R.Ragunathan S.Bharathan	-
3		Reduce the string test lead time by standardization for HPX Spools	Flow Serve, Coimbatore	K.Naveen Prakash S. Santhosh	-
4		Automated Performance Track Record for all products	Flow Serve, Coimbatore	S.Boopathi	-

## In-Plant Training by the Students

Dept.	Student Name / Total No. of Students & Branch	Place of In-plant Training	Period of Training (Date(s))
1	R.Praveen S.Shameer Mohamed. R.SriDev	Karnesa Consulting Engineers	3

## 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	M.R Santhosh	III MECH	Anna University Zonal Meet	-	08 , 09, 10 October

### NCC Activities

Name of the Students	Degree Studying	Branch	Programmes Organized / Conducted / Participated	Venue	Date (s)
S.SaravanaSundaram	B.E	III MECH B	Army Attachment Camp	Secunderabad	01.10.14 - 15.10.14

## GATE FORUM TRAINING: IV MECH A Section (60 Students)

Strength of Material(18.10.2014 to 19.10.2014)

S.No.	Roll No.	Name	S.No.	Roll No.	Name
1	11BME001	Aakash N C	31	11BME037	Infant Praveen S
2	11BME002	Abdul Shiyam A	32	11BME038	Jagan K
3	11BME004	Amarnath T	33	11BME039	Jayabal R
4	11BME005	Anbu N	34	11BME040	Jayasoundaryan O T
5	11BME007	Arun Karthik R	35	11BME041	Jayendran S V
6	11BME008	Arun Raj B	36	11BME042	Kaarventhan T
7	11BME009	Arunkumar S	37	11BME043	Kalaimani T
8	11BME010	Aswin S	38	11BME044	Kannan J
9	11BME012	Balachandar S	39	11BME045	Karthikeyan S
10	11BME013	BalajiPandithurai S	40	11BME046	Kishor Kumar N
11	11BME014	Banthala Selvan S	41	11BME047	Kumaresh V
12	11BME015	Baranidharan P S	42	11BME048	Loganathan P
13	11BME017	Boopathiraj P	43	11BME049	Logesh Krishnan K
14	11BME018	Chakravarthy S	44	11BME051	Madhubalan S
15	11BME019	Deenadhayalan S	45	11BME052	Maheswaran P
16	11BME021	Dinesh Kumar AK	46	11BME053	ManickaVasagam T
17	11BME022	Dinesh Kumar R	47	11BME054	Manokar A
18	11BME023	Dinesh V S	48	11BME055	Mathialagan P
19	11BME024	Elavarasan S	49	11BME058	Mohammedfarook N
20	11BME025	GauthamSiddarth P T	50	11BME059	Mohankumar N
21	11BME026	Gobi Kannan P	51	11BME060	Muneeswaran M
22	11BME027	Gokul V	52	12BME301	Boopathi S
23	11BME028	Gokulraj S	53	12BME302	Deepakraj A S
24	11BME029	Gopalsamy R	54	12BME304	Divakaran R
25	11BME030	Gowtham K	55	12BME306	Jegathvishnu M
26	11BME032	Gurunathan S	56	12BME313	Muralidharan N



27	11BME033	Hariharan J	57	12BME314	Prabakaran G
28	11BME034	Hariharan T	58	12BME317	Raghunathan R
29	11BME035	Hariprakash N	59	12BME318	Rajaji P
30	11BME036	Harishankar K	60	12BME321	Saththivel S

## GATE FORUM TRAINING: IV MECH B Section (59 Students) -

Strength of Material (18.10.2014 to 19.10.2014)

S.No.	Roll No.	Name			
			S.No.	Roll No.	Name
1	11BME063	NAVEEN KUMAR.M	31	11BME098	SETHUPATHI.T
2	11BME064	NAVEEN PRAKASH.K	32	11BME099	SHAHUL HAMEED.M
3	11BME065	NAVIN RAJ.N	33	11BME101	SIVA.S
4	11BME068	PAVITHRAN.K.C	34	11BME102	SRIVISHNUVARDHAN.S
5	11BME069	PRABHU DEVA.V	35	11BME103	SUBASH.S
6	11BME070	PRABHU .K	36	11BME104	SUBBURAMAN.A
7	11BME071	PRADEEP.M	37	11BME105	SUHAILAHAMED.S
8	11BME072	PRAKASH.R	38	11BME106	SURENDER.G
9	11BME073	PRANAV.M	39	11BME107	SURESH KUMAR.S
10	11BME075	RAHUL.I	40	11BME108	SURIYA PRAKASH.S
11	11BME076	RAHUL JHAVERI.S	41	11BME109	TAMIL VENDHAN.M
12	11BME077	RAJA.M	42	11BME110	UDHAYA KUMAR.M
13	11BME079	RAJESH.A	43	11BME111	VARUN KUMAR.R
14	11BME080	RAJ KUMAR.J	44	11BME112	VEERAPUTHIRAN.K
15	11BME081	RAJ PRASATH.K	45	11BME113	VJAY.K
16	11BME082	RAMESH.G	46	11BME114	VIMAL.S
17	11BME083	RAMESH.K	47	11BME116	VINOTH KUMAR.S
18	11BME084	RANJITH.N	48	11BME117	VISHWANATH.M
19	11BME085	RANJITH KUMAR.V.E	49	11BME118	WINSTON ROY.A
20	11BME087	RUTHRA KUMAR.B	50	11BME119	YOGESH WARAN.J
21	11BME088	SABARI.M	51	11BME120	YUVRAJ KUMAR.G
22	11BME089	SANTHOSH KUMAR.D	52	12BME307	KARTHIKEYAN P
23	11BME090	SANTHOSH.S(8.1.94)	53	12BME308	MAHALINGAM P
24	11BME091	SANTHOSH.S(25.11.93)	54	12BME310	MOHAMED AASHIK L
25	11BME092	SANTHOSH KUMAR.S	55	12BME311	MOHAMED IRSHAD C A
26	11BME093	SARAVANA KUMAR.G	56	12BME315	PRAKASH R
27	11BME094	SATHISH KUMAR.S	57	12BME316	PREM KUMAR S
28	11BME095	SATHISH KUMAR.M	58	12BME320	SATHISHKUMAR B
29	11BME096	SATHYARAJ.K	59	12BME322	SENTHILVELAN A
30	11BME097	SELVA RAJ.C	31	11BME098	SETHUPATHI.T



# 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	1.Dr.Rama Thirumurugan 2.Mr.S.Madhusudhanan 3.Mr.K.Prabu	1.Associate Prof 2.Assistanat Prof(SS) 3.Assistant Prof	1.A-Entry Multi Axis Durability test 2.Static Test of model PA Knuckle and model B Knuckle	SACL	-	01.10.14	15.10.14
						20.10.14	21.10.14

## Guest Lectures on

**“Mechanism of Farms through engineering interventions”**

by

**Dr. S. Jacob K. Annamalai,**

**Principal Scientist and Head,**

**Central Institute for Agricultural Engineering,**

**Coimbatore.**



### Industry-Institute Interaction Activities

S.No	Name of the Faculty (s)	Designation	Name of the organization / Firm/ Company Visited	Date
1	Dr.I.Rajendran Mr.M.Selvakumar	Professor/HoD Mech Associate Professor Assistant Professor(SG)	Roots Multiclean Limited (RMCL) Kovilpalayam, Coimbatore	19.11.14
2	Dr.I.Rajendran Mr.M.Selvakumar	Professor/HoD Mech Assistant Professor(SG)	Roots Cast Private Limited (RCPL) Unit II at Arugampalayam, Coimbatore	22.11.14
3	Dr.I.Rajendran Mr.M.Selvakumar Dr.RamaThirumurugan	Professor/HoD Mech Assistant Professor(SG) Associate Professor	T T K Prestige Ltd Myleripalayam Village Coimbatore	27.11.14

## Research and Development

### Consultancy

Dept.	Name of the Faculty (s)	Designation	Title of the Consultancy Work	Name of the organization / Firm/ Company	Period of Consultancy	
					From	To
CDAT	1. Dr.Rama Thirumurugan 2. Mr. S. Madhusudhanan 3. Mr.K.Prabu 4. Mr.Abdul Wahid	1.Associate Prof 2.Assistanat prof(SS)	1.RNTBCI A-Entry Steering knuckle Steering arm fatigue test	SACL	14.11.2014	22.11.14
		3.Assistant prof 4.Senior Executive	2. RNTBCI A-Entry Steering knuckle Multi axis fatigue test		15.11.14	2.Till running

## Staff Development Programmes

### Continuing Education Programs/Faculty Development Programmes/Conferences/Seminar/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. C. Selva Senthil Prabhu	Fluid Power System workshop	MCET – BOSCH REXROTH	MCET	18	15.12.14 to 20.12.14

### Participation in Seminar/Conference/Workshop/Training etc... by MCET Staff

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
Mech	Rama Thirumurugan Associate Professor S.Madhusudhanan Assistant Professor (SS) K.Prabhu Assistant Professor	Course on Design Optimization	Kumaraguru college of Technology, Coimbatore	09.12.14 to 10.12.14
	Saranya.N Assistant Professor	Two Week Main Workshop on Control Systems	IIT Bombay Remote Centre , MCET	02.12.14 to 12.12.14
	C.Settu Mechanist K.Thangaraj Lab Assistant S.Pasupathy Lab Assistant	Workshop on Fluid Power System	MCET-BOSCH REXROTH	18.12.14 to 20.12.14

# REPORT OF FLUID POWER SYSTEM WORKSHOP

Fluid Power System workshop was jointly organized by Department of Mechanical Engineering and MCET-Bosch Rexroth CoC held during the period from 15 – 20 December 2014. This was a 3 day Program with two slots (Slot I: 15 – 17.12.14 & Slot II: 18 – 20.12.14) and focused on, Hydraulics and Electro Hydraulics Pneumatics and Electro Pneumatics PLC (Programmable Logic Controller) Totally 18 participants attended this workshop. 4 faculty members from External engineering college, 4 industrialist from various Industry, 5 students from External engineering college and 5 Lab assistants from our Institution participated in this Fluid Power System workshop.

## Monday& Thursday:

Session1: Mr.M.Selvakumar AP (SG) / Mechanical Engg handled the session on Hydraulics.

Session2: Mr .C. Selva Senthil Prabhu AP/Mechanical Engg handled the practical session of Hydraulics components (direction control valves, setting the system pressure and application based experiments).

Session 3: Mr. S. Anthony Jesudurai, AP (SS)/ICE Dept trained the participants in Electro Hydraulics.

## Tuesday& Friday:

Session 1: Dr. D. Shanmugam AP (SG)/ Mechanical Engg handled the session on Pneumatics and highlighted the difference b/w hydraulic and pneumatic system

Session 2 and 3: Mr.C.SelvaSenthilPrabhu AP/Mechanical Engg handled the practical session on Pneumatics(direction control valves,application based experiments, Electro pneumatics and signal overlapping concepts).

Session: 3 Mr. S. Anthony Jesudurai, AP (SS)/ICE Dept handled the session on Programmable Logic Controller.

## Wednesday& Saturday:

Mr. S. Anthony Jesudurai, AP (SS)/ICE Dept., and Mr.C.Selva Senthil Prabhu AP/Mechanical Engg. trained the trainee in Bosch Rexroth PLC in ladder logic Program with real time systems and demonstrated the Modular Mechatronics system.

All the Practical Sessions were supported by our Technical Associates,  
Mr. K.A.Prakash and Mr. A.Mohanasundaram