

E-MAGAZINE

**MECHANICAL
ENGINEERING**

SPECIAL EDITION

MECHTRO

VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES

Vision of the Institution

IMPART AN INCLUSIVE ENGINEERING EDUCATION THAT BEYOND BEING A FACILITATOR FOR A CAREER AND RUDIMENTARY SKILLS, EQUIPS THE STUDENTS TO OFFER ETHICALLY & ENVIRONMENTALLY CONSCIOUS SOLUTIONS TO SOCIETAL ISSUES.

Mission of the Institution

DEVELOP THE INSTITUTION INTO A MODEL SELF FINANCING COLLEGE OF ENGINEERING AND TECHNOLOGY. PROFESSIONAL TRAINING TO OUR STUDENTS WITH STATE OF THE ART LABORATORIES AND CONVERTING THEM INTO TECHNOCRATS OF INTERNATIONAL REPUTE.

1. CREATE A NURTURING, HOLISTIC ENVIRONMENT OF ENGINEERING EDUCATION TO FACILITATE EVERY STUDENT REALIZE THEIR FULL POTENTIAL
2. STRIVE TO MAKE THE STUDENTS STRONG IN BASIC CONCEPTS ARMED WITH APPROPRIATE SKILLS TO ENHANCE ONE'S ABILITY TO APPLY THE KNOWLEDGE TO PROVIDE SOLUTIONS TO REAL TIME ISSUES.
3. MAINTAIN AN AMBIENCE THAT FACILITATES THE STUDENTS TO STRENGTHEN THEIR ETHICAL VALUE SYSTEMS.
4. ACTIVELY PROMOTE R&D AND INSTITUTE-INDUSTRY INTERACTION.

Vision of the Department

- ✓ TO BECOME A DEPARTMENT OF ACADEMIC EXCELLENCE IN THE FRONTIER AREAS OF MECHANICAL ENGINEERING.
- ✓ TO BECOME A RENOWN INSTITUTE FOR HIGHER LEARNING AND RESEARCH IN MECHANICAL ENGINEERING LEADING TO THE EVOLUTION OF KNOWLEDGE SOCIETY.

Mission of the Department

- ✓ TO TRAIN FUTURE LEADERS WITH SKILLS AND ABILITIES.
- ✓ TO PURSUE RESEARCH IN FRONTIER AREAS AND ENHANCE KNOWLEDGE BASE.
- ✓ TO INCULCATE VALUES LEADING TO HOLISTIC LEARNING.

PEO I : TO DEVELOP FUNDAMENTAL KNOWLEDGE IN ENGINEERING IN ORDER TO ENABLE THEM TO FORMULATE ANALYZE AND SOLVE THE APPLICATION PROBLEMS.

PEO II : TO PROVIDE HANDS ON TRAINING ON VARIOUS CUTTING EDGE TECHNOLOGIES IN ORDER TO INCULCATE AN INNOVATIVE APPROACH TOWARDS DESIGN, MANUFACTURE AND MAINTAIN NEW PRODUCTS/SYSTEMS.

PEO III : TO PROVIDE OPPORTUNITIES TO THE STUDENTS TO PARTICIPATE/ORGANIZE WORKSHOPS/SEMINARS ON RECENT TRENDS/RESEARCH IN THE FIELD OF MECHANICAL ENGINEERING.



Program Specific Outcomes (PSO)

- 1. APPLY ENGINEERING KNOWLEDGE TO DEVELOP MACHINES, EQUIPMENTS, PROCESS AND SYSTEMS FOR THE BENEFIT OF SOCIETY & SELF.**
- 2. DEVELOP JOB READY, BILLABLE, EMPLOYABLE PROFESSIONALS FAMILIAR WITH BEST PRACTICES OF INDUSTRIES.**
- 3. APPLY THEIR ACQUIRED KNOWLEDGE IN THE DOMAIN OF APPLIED MECHANICS, THERMAL AND FLUID SCIENCES TO SOLVE ENGINEERING PROBLEMS UTILIZING LATEST TOOLS.**

Department achievements:

1. THE MECHANICAL ENGINEERING DEPARTMENT U.G PROGRAM HAS BEEN PROVISIONALLY GRANTED ACCREDITATION FOR 2 YEARS BY NBA FROM 06-08-2014
2. INSPECTION FOR RESEARCH DEPARTMENT RECOGNITION OF OUR MECHANICAL ENGINEERING DEPARTMENT BY ANNA UNIVERSITY – CHENNAI TOOK PLACE ON 02/12/14.

Faculty achievements:

Dr. G.Jayaprakash (Head of Department):

1. DR.G.JAYAPRAKASH, PROF. & HEAD, MECHANICAL ENGINEERING DEPARTMENT DELIVERED A LECTURE TITLED "ROBOT PROGRAMMING" IN ANNA UNIVERSITY::CHENNAI APPROVED FDTP ON ROBOTICS HELD IN K.RAMAKRISHNAN COLLEGE OF ENGINEERING , TRICHY ON 23.06.2014.
2. DR.G.JAYAPRAKASH, PROF. & HEAD, MECHANICAL ENGINEERING DEPARTMENT DELIVERED A LECTURE TITLED "FLUID FLOW THROUGH PIPES" IN ANNA UNIVERSITY::CHENNAI SPONSORED FDTP ON FLUID MECHANICS HELD IN K.RAMAKRISHNAN COLLEGE OF ENGINEERING, TRICHY ON 27.06.2014.
3. DR.G.JAYAPRAKASH, PROF. & HEAD, MECHANICAL ENGINEERING DEPARTMENT DELIVERED A LECTURE TITLED "KINEMATICS OF LINKAGE MECHANISMS" IN ANNA UNIVERSITY::CHENNAI SPONSORED FDTP ON KINEMATICS OF MACHINERY HELD IN K.RAMAKRISHNAN COLLEGE OF ENGINEERING, TRICHY ON 25.12.2014.
4. DR.G.JAYAPRAKASH , PROF & HEAD, MECHANICAL ENGINEERING DEPARTMENT HAS CONTRIBUTOR FOR THE BOOK TITLED, "AUTOMATION, PRODUCTION AND COMPUTER INTEGRATED MANUFACTURING" OF PEARSON PUBLICATION.
5. DR.G.JAYAPRAKASH , PROF & HEAD, MECHANICAL ENGINEERING DEPARTMENT HAS BEEN SELECTED AS REVIEWER FOR THE INTERNATIONAL CONFERENCE "ICAD&M'14" ORGANIZED BY MECHANICAL ENGINEERING DEPARTMENT OF NIT-TRICHY.
6. PAPER TITLED, "EXPERIMENTAL INVESTIGATION ON EFFECT OF PWHT ON MECHANICAL PROPERTIES OF T23 STEEL" HAS BEEN SELECTED FOR PRESENTATION IN THE INTERNATIONAL CONFERENCE "INCAPIE 2015" ORGANIZED BY PRODUCTION ENGINEERING DEPARTMENT OF NIT-TRICHY.
7. PAPER TITLED, "SIMULATION ON EFFECT OF PWHT ON MECHANICAL PROPERTIES OF GRADE 23 STEEL" HAS BEEN SELECTED FOR PRESENTATION IN THE INTERNATIONAL CONFERENCE "INCAPIE 2015" ORGANIZED BY PRODUCTION ENGINEERING DEPARTMENT OF NIT-TRICHY.

International Journal publications– Dr.N.Baskar-Professor

1. B.SURESHKUMAR , N.BASKAR, EXPERIMENTAL INVESTIGATION OF MACHINING PARAMETERS IN DRILLING OPERATION USING CONVENTIONAL AND CNC MACHINES ON TITANIUM ALLOY, INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY, VOL , 6 No: 2 , 872-880, 2014.
2. R,BALASUNDARAM, D.VALAVAN AND N,BASKAR, HEURISTIC BASED APPROACH FOR BI-CRITERIA OPTIMIZATION OF MINIMIZING MAKESPAN AND TOTAL FLOW SHOP SCHEDULING, INTERNATIONAL JOURNAL OF MECHANICAL AND MECHATRONICS ENGINEERING(IJMME) – IJENS, VOL.14, No:2, 1-11, 2014.

Papers Published in International Conference (Dr.N.Bhaskar)

1. R.GAYATRI AND N.BASKAR, EVALUATING PROCESS PARAMETERS OF MULTI-PASS TURNING PROCESS USING HYBRID GENETIC SYSTEM (HSS) ALGORITHM, INTERNATIONAL CONFERENCE ON ADVANCES IN DESIGN & MANUFACTURING, NATIONAL INSTITUTE OF TECHNOLOGY, TRICHY DECEMBER 5-7, VOLUME No.2, 2014, 568-573.
2. S.PREMALATHA AND N.BASKAR, AN ANALYSIS OF HYBRID DATA MINING SIMULATED ANNEALING ALGORITHM (HDMA)FOR SINGLE MACHINE SCHEDULING, INTERNATIONAL CONFERENCE ON ADVANCES IN DESIGN & MANUFACTURING, NATIONAL INSTITUTE OF TECHNOLOGY, TRICHY DECEMBER 5-7, VOLUME No.3 , 2014, , 1413 – 1418.
3. R.GAYATRI, N.BASKAR AND M.MALARVIZHI , PROCESS PARAMETER OPTIMIZATION IN MULTI-PASS TURNING OPERATION USING HYBRID FIREFLY SWARM ALGORITHM , 5TH INTERNATIONAL AND 26TH ALL INDIA MANUFACTURING ,TECHNOLOGY, DESIGN AND RESEARCH CONFERENCE , AIMTDR 2014 , MACHINING, IIT, GUWAHATI, DECEMBER 12-14 , 2014, 112-1 – 112-7.
4. S. KANNAN, N. BASKAR AND B. SURESHKUMAR, SELECTION OF MACHINING PARAMETERS IN FACE MILLING OPERATIONS FOR COPPER WORK PIECE MATERIAL USING RESPONSE SURFACE METHODOLOGY AND GENETIC ALGORITHM , 5TH INTERNATIONAL AND 26TH ALL INDIA MANUFACTURING ,TECHNOLOGY, DESIGN AND RESEARCH CONFERENCE , AIMTDR 2014 , MACHINING, , IIT, GUWAHATI , DECEMBER 12-14, 2014, 137-1 – 1137-6.
5. N. ANNAMALAI, V. SIVARAMAKRISHNAN AND N.BASKAR, RESPONSE SURFACE MODELING OF ELECTRIC DISCHARGE MACHINING PROCESS PARAMETERS FOR EN 24 LOW ALLOY STEEL , 5TH INTERNATIONAL AND 26TH ALL INDIA MANUFACTURING TECHNOLOGY, DESIGN AND RESEARCH CONFERENCE , AIMTDR 2014 , ADVANCED MANUFACTURING – I , IIT, GUWAHATI, DECEMBER 12-14,2014, 150-1 – 150-7.

6. V.BALASUBRAMANIAM, N.BASKAR AND C.SATHIYA NARAYANAN, OPTIMIZATION OF ELECTRICAL DISCHARGE MACHINING PARAMETERS USING ARTIFICIAL NEURAL NETWORK WITH DIFFERENT ELECTRODES , 5TH INTERNATIONAL AND 26TH ALL INDIA MANUFACTURING ,TECHNOLOGY, DESIGN AND RESEARCH CONFERENCE , AIMTDR 2014 , ADVANCED MANUFACTURING - I , , IIT, GUWAHATI , DECEMBER 12-142014, 152-1 - 152-4.

Conference publications of Ms.R.Rekha (Assistant Professor/ Mechanical)

1. R.REKHA AND N.BASKAR ,NN-GA BASED MODELING AND OPTIMIZATION OF CYLINDRICAL GRINDING PROCESS , 5TH INTERNATIONAL AND 26TH ALL INDIA MANUFACTURING ,TECHNOLOGY, DESIGN AND RESEARCH CONFERENCE , AIMTDR 2014 , MACHINING, , IIT, GUWAHATI, DECEMBER 12-14 2014, 269-1 - 269-5.
2. R.REKHA, N.BASKAR, A.PALANISAMY AND J.JERALD, REGRESSION MODELLING AND SIMULATED ANNEALING APPROACH FOR MULTI-OBJECTIVE OPTIMIZATION OF CYLINDRICAL GRINDING PROCESS PARAMETERS, , INTERNATIONAL CONFERENCE ON ADVANCES IN DESIGN & MANUFACTURING, NATIONAL INSTITUTE OF TECHNOLOGY, TRICHY, DECEMBER 5-7, VOLUME No.3 , 2014, , 1515 - 1520.

Conference publications of Mr.M.Ganesan (Assistant Professor/ Mechanical)

1. SATHISKUMAR, V.SHRINIVASAN, P.PRAKASH, M.GANESAN AND N.BASKAR, EXPERIMENTAL INVESTIGATIONS AND ANALYSIS OF MACHINING PARAMETERS FOR MACHINING EN8 MATERIAL, INTERNATIONAL CONFERENCE ON ADVANCES IN DESIGN & MANUFACTURING, NATIONAL INSTITUTE OF TECHNOLOGY, TRICHY, DECEMBER 5-7, VOLUME No. 1 , 2014, , 286-289.

Publication details of Mr.M.Sridharan(Assistant Professor/ Mechanical)

International Conferences:

1. EXPERIMENTAL STUDY ON PERFORMANCE VARIATION OF HELICAL COIL HEAT EXCHANGER, INTERNATIONAL CONFERENCE ON ADVANCES IN DESIGN & MANUFACTURING (ICAD&M'14),NIT TRICHY, DECEMBER 5-7,2014
2. MATLAB SIMULATION OF TRANSPARENT GLASS PV/T HYBRID WATER COLLECTORS, INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS AND CONTROL (ISCO'15), KARPAGAM COLLEGE OF ENGINEERING, JANUARY 9-10 2015.
3. SIMULATION AND THEORETICAL INVESTIGATION ON TRANSPARENT GLASS PV/T WATER COLLECTORS, ICREEC 2014,INTERNATIONAL INSTITUTE OF SCIENTIFIC RESEARCH AND TECHNOLOGY, DECEMBER 13,2014.

International Journals:

1. SIMULATION AND THEORETICAL INVESTIGATION ON TRANSPARENT GLASS PV/T WATER COLLECTORS, INTERNATIONAL JOURNAL OF ELECTRICAL AND COMPUTING ENGINEERING, VOL. 1, ISSUE. 2, DECEMBER – 2014 , ISSN (ONLINE): 2349-8218.

DEPARTMENT ACTIVITIES:

FACULTY DEVELOPMENT AND TRAINING PROGRAMME (FDTP):

THE DEPARTMENT OF MECHANICAL ENGINEERING ORGANISED A ONE WEEK FACULTY DEVELOPMENT TRAINING PROGRAMME ON "STRENGTH OF MATERIALS" FROM 16TH JUNE 2014 TO 22ND JUNE 2014. DR.G.JAYAPARAKASH, HOD/MECHANICAL WAS THE COORDINATOR OF THIS PROGRAMME. THIS PROGRAMME WAS APPROVED BY CENTRE FOR FACULTY DEVELOPMENT, ANNA UNIVERSITY FOR TUNING THE TECHNICAL KNOWLEDGE AND TEACHING METHODOLOGY OF YOUNG MECHANICAL FACULTY MEMBERS. TOTALLY THERE ARE TWENTY EIGHT SESSIONS OUT WHICH FOURTEEN SESSIONS WERE ALLOTTED FOR TECHNICAL PRESENTATIONS, SEVEN SESSIONS WERE ALLOCATED TO LAB PRACTICE AND SEVEN SESSIONS WERE ALLOCATED FOR TUTORIAL PRACTICE. PROFESSORS FROM NIT-TRICHY LIKE DR.T.SUTHAKAR, PROFESSOR & HEAD, MECHANICAL ENGINEERING DEPARTMENT & DR.N.SHIVASHANMUGAM, HANDLED CLASSES. THIS PROGRAMME WAS INAUGURATED BY DR.A.REVATHI, PRINCIPAL, SARANATHAN COLLEGE OF ENGINEERING ON 16TH JUNE 2014. TOTALLY TWENTY PARTICIPANTS REGISTERED FOR THIS PROGRAMME AND THEY WERE FROM NEARBY COLLEGES LIKE MAM COLLEGE OF ENGINEERING, MOOKAMBIGAI COLLEGE OF ENGINEERING, TRP ENGINEERING COLLEGE, SHIVANI ENGINEERING COLLEGE. ETC., THEY WERE GIVEN AN OPPORTUNITY TO INTERACT WITH ALL RESOURCE PERSONS TO IMPROVE THEIR UNDERSTANDING ABOUT THE SUBJECT. THEY WERE ALSO GIVEN PRACTICAL TRAINING BY CONDUCTING EXPERIMENTS AND DEMONSTRATION IN OUR STRENGTH OF MATERIAL LAB. THEY ALSO GOT ENOUGH PRACTICE TO SOLVE PROBLEMS FROM DIFFERENT TOPICS OF THE STRENGTH OF MATERIALS SUBJECT. THE PARTICIPANTS WERE ALSO GIVEN WITH A PROGRAMME CD CONTAINING ALL THE PRESENTATION SLIDES & E-BOOKS. THE PROGRAMME WOULD HAVE AUGMENTED THE UNDERSTANDING OF PARTICIPANTS ON THE STRENGTH OF MATERIALS SUBJECT.

Seminars/ Conferences/ Training Programmes/ Workshop/Faculty Development Programmes organized.

1. MR.M .VIVEKANANDAN, SENIOR MANAGER (DESIGN – R&D) UTTAM INDUSTRIAL ENGG. LTD. GAVE A LECTURE ON "RECENT TRENDS IN CAD/CAE TO OUR THIRD YEAR MECHANICAL ENGINEERING STUDENTS" ON 02/08/14. HE ALSO INTERACTED WITH OUR DEPARTMENT STAFF REGARDING TOOLS AND TECHNIQUES THAT CAN BE USED IN STUDENT'S PROJECT WORK.



3. A SKILL DEVELOPMENT PROGRAM ON “CNC PROGRAMMING AND OPERATIONS “ WAS CONDUCTED FROM 07TH AUGUST 2014 TO 11TH AUGUST 2014. MR.HEMACHANDRAN VENKATARAJAN, CHIEF EXECUTIVE OFFICER, SOLUTION BRIDGE MANAGEMENT SERVICES GAVE AN OVERVIEW OF THE PROGRAM.





4. Short term course on 3D modeling software (Pro/E)

PRO/E COURSE WAS CONDUCTED BY THE DEPARTMENT OF MECHANICAL ENGINEERING OF SARANATHAN COLLEGE OF ENGINEERING FROM 08-12-2014 TO 12-12-2014 FOR THE BENEFIT OF OUR STUDENTS. THIS COURSE STARTED WITH THE BRIEF INTRODUCTION ABOUT DESIGN, MANUFACTURING PROCESS, FOLLOWED BY FUNDAMENTAL CONCEPT OF SKETCH, PART MODELING, ASSEMBLY, DETAILING, PLOTTING AND INDUSTRIAL APPLICATIONS. IN THIS COURSE 25 STUDENTS OF OUR SECOND YEAR MECHANICAL ENGINEERING DEPARTMENT HAVE PARTICIPATED AND GOT BENEFITED.



Staff members who handled this course

1. MR. S. KARTHIKEYAN - ASST. PROF. / MECH.
2. MR. M. GANESAN - ASST. PROF. / MECH.
3. MR. S. PARAMAGURU - LECTURER / MECH.
4. MR. K. AMARNATH - LECTURER / MECH.

5. Short term course on Industrial Automation

INDUSTRIAL AUTOMATION COURSE WAS CONDUCTED BY THE DEPARTMENT OF MECHANICAL ENGINEERING OF SARANATHAN COLLEGE OF ENGINEERING ON 15TH & 16TH DECEMBER 2014 FOR THE BENEFIT OF OUR STUDENTS. THIS COURSE DEALT WITH HYDRAULIC & PNEUMATIC CIRCUIT FORMATION AND SIMULATION OF SEQUENCING CIRCUITS USING AUTOMATION STUDIO SOFTWARE AND IN PLC.

IN THIS COURSE 25 STUDENTS OF THIRD YEAR MECHANICAL ENGINEERING DEPARTMENT PARTICIPATED .

Staff members who handled this course:

- MR. R. S. BALIAH - PROF. / MECH.
MR. N. SATHIYA NARAYANAN - ASST. PROF. / MECH.
MR. P. REGINALD ELVIS - ASST. PROF. / MECH.
MR. P. SASIKANTH - LAB. ASST / MECH.



6. A TWO DAY FACULTY DEVELOPMENT PROGRAMME ON "ENHANCING THE COMPETENCY OF TEACHING", ORGANIZED BY THE DEPARTMENT OF ENGLISH TO OUR FACULTY MEMBERS WAS ATTENDED BY THE FOLLOWING

Faculty members.

1. MR. A.MARIA JACKSON
2. MR. K.AMARNATH
3. MR. P.REGINALD ELVIS
4. MR. B.JOHNSON
5. MR. S.PARAMAGURU

7. SHORT TERM COURSE ON ANSYS 11.0 SESSIONS WAS CONDUCTED FROM 15.12.2014 TO 19.12.2014.

THE OBJECTIVE WAS TO

- ◆ TO TRIGGER INNOVATIVE AND CREATIVITY POWER OF THE STUDENTS IN THE AREAS OF MECHANICAL SYSTEM ANALYSIS.
- ◆ TO GIVE INTRODUCTION ON VARIOUS PLATFORMS OF ANSYS 11.0.
- ◆ TO BRIDGE GAP BETWEEN THEORETICAL KNOWLEDGE & PRACTICAL KNOWLEDGE.

Course Contents:

INTRODUCTION ON ANSYS-2-D & 3-D ANALYSIS-STRUCTURAL ANALYSIS-BEAMS-VARIOUS STRUCTURAL COMPONENTS-THERMAL ANALYSIS-FINS & VARIOUS THERMAL COMPONENTS-COUPLE FIELD ANALYSIS-HARMONIC & MODAL ANALYSIS-AXI-SYMMETRIC ANALYSIS.

Coordinators:

1. MR.R.KUMAR ASSISTANT PROFESSOR
2. MR.M.SRIDHARAN ASSISTANT PROFESSOR
3. MR.A.RANJITH RAJ ASSISTANT PROFESSOR
4. MR.JOHNSON ASSISTANT PROFESSOR.

Skilled Assistant:

MR.S.PARAMAGURU LECTURER.

Overall Coordinator:

DR.G.JAYAPRAKASH (HOD/MECH)

GUEST LECTURES :

S.No	Event	Type of Events	Date of Events	Guest/speaker/ Participants
Year 2014-2015				
	Expert Lecture	Expert Lecture on “ Emerging Trends in Mechanical Engineering”	25.07.14	Mr.Sathish, CAD Centre Trichy
	Special lecture	Special lecture on. ‘CAD/CAM/CAE’ for Engineering students	02.08.14	Mr. Vivekanandan, Senior Manager, Research Department,Uttam Group of Industries, Trichy
	Inaugural Function	CNC Training & Operation	07.08.14	Mr. Hemachandran, Manager, CEO, Solution Bridge, Trichy.
	Expert Lecture	Expert Lecture on “ CNC”	12.08.14	Dr.Gajendran, Director,PCFCT,Chennai
	Expert Lecture	Expert Lecture on “Emerging Trends & Scope for Research in Mechanical Engg. Field”	25.08.14	Mr.Sambath, Director, NFIVE Skill Development Centre, Trichy
	Expert Lecture	Expert Lecture on “Emerging Trends & Scope for Research in Mechanical Engg. Field”	26.08.14	Mr.Sambath, Director, NFIVE Skill Development Centre, Trichy
	Expert Lecture	Expert Lecture on “ CNG – An Overview”	01-09-14	Mr.Jeyakumar Joshua, Retired Engineer.
	Expert Lecture	Expert Lecture on “ Career in Industrial Safety”	09-09-14	Mr.D.Jagan Narayanan, Manager, Vijay Inst. of Safety Training, Trichy.
	Expert Lecture	Expert Lecture on “ Opportunities in the field of Mechanical Engineering ”	10-09-14	Dr.K.Padmanaban, CEO, PCFCT,Chennai.

STUDENT ACHIEVEMENTS:

PUBLICATION OF FINAL YEAR STUDENTS:

Arun Raj.K.S

INTERNATIONAL CONFERENCE

- ◆ PUBLISHED RESEARCH PAPER ENTITLED **"PREPARATION, MORPHOLOGY AND THERMAL GRAVIMETRIC ANALYSIS OF NANO COPPER REINFORCED HIGH DENSITY POLYETHYLENE NANO COMPOSITE"** AT CIPET

International Conference 2013, CONDUCTED BY CENTRAL GOVERNMENT OF INDIA LUCKNOW DURING MARCH 2013.(ISBN NO : 978-81-8424-823-4)

NATIONAL CONFERENCE:

- ◆ PUBLISHED RESEARCH PAPER AND PUBLISHED IN CONFERENCE PROCEEDINGS ENTITLED **"DESIGN, ANALYSIS AND OPTIMIZATION OF IC ENGINE CONNECTING ROD ALFASIC MATERIAL USING FINITE ELEMENT ANALYSIS"** AT **NAFEMS India Regional Conference – 2015** AT HOTEL HILTON, CHENNAI
- ◆ PUBLISHED RESEARCH PAPER AND PUBLISHED IN CONFERENCE PROCEEDINGS ENTITLED **"DESIGN, ANALYSIS AND OPTIMIZATION OF ONE PIECE COMPOSITE DRIVE SHAFT FOR REAR WHEEL DRIVE AUTOMOBILE"** AT **NAFEMS India Regional Conference – 2015** AT HOTEL HILTON, CHENNAI
- ◆ PUBLISHED RESEARCH PAPER ENTITLED **"ANALYZING AND INCREASING THE AIR STANDARD EFFICIENCY OF DIESEL ENGINE BY CRITICALLY CONDITIONING THE INLET AIR"** IN **SAE-TAPSA 2015** NATIONAL CONFERENCE

JOURNAL PUBLICATIONS:

- ◆ PUBLISHED TWO PAPERS IN **IJRSET** JOURNAL IN SPECIAL EDITION **M.BALACHANDRAN**
- ◆ PUBLISHED RESEARCH WORK ENTITLED **"EXPERIMENTAL INVESTIGATION ON NATURAL CONVECTION HEAT TRANSFER IN A HELICAL COIL HEAT EXCHANGER USING WATER AS FLUID"** AT **IMEC-2014** AT NIT, TRICHY

E.MARIA DERRICK JERRY, GAUTHAM, SIBI KUMAR, ALPHONE INFANT LEO

PUBLISHED RESEARCH PAPER ENTITLED **"EMISSION CONTROL IN AUTOMOBILES USING BUTANOL LIQUID"** AT **ICWAME-2014** AT THAKUR COLLEGE OF ENGINEERING AND TECHNOLOGY, MUMBAI

Publication of Pre-final year students:

1. J. SATHISH KUMAR, V.SHRINIVASAN, P.PRAKASH OF III SECTION "B" , DEPT. OF. MECH.ENGG, PRESENTED A PAPER, "EXPERIMENTAL INVESTIGATIONS AND ANALYSIS OF MACHINING PARAMETERS FOR MACHINING EN8 MATERIAL", AT ICAD&M'14, AT NIT, TRICHY.
2. CONSTRAINED MACHINING PARAMETERS OPTIMISATION OF EN8 STEEL USING TAGUCHI APPROACH PRESENTED BY V.PREM KUMAR, P.VIJAYA KUMAR AT INCAPIE-2015 AT NIT, TRICHY.

Paper Presentation:

- ⌘ E.MARIA DERRICK JERRY AND SIBIKUMAR BAGGED SECOND PLACE IN PAPER PRESENTATION IN KARPAGAM UNIVERSITY.
- ⌘ ARUNRAJ.K.S PRESENTED PAPER ENTITLED "GREENYDIA" IN CAPE INSTITUTE OF TECHNOLOGY, KANNYKUMARI.

Wokshops:

- ⌘ ARUNRAJ.K.S, SRINIVASAN.R, RAJKUMAR.P, PRAVEENG, ARAVINDH KUMAR PARTICIPATED IN TWO DAY WORKSHOP "INDUSTRIOUS AUTOMATION" CONDUCTED BY BANNARIAMMAN INSTITUTE OF TECHNOLOGY, SATYAMANGALAM.
- ⌘ ABU BAKKAR SIDDIK.J, ARULS, G.GURUMOORTHY, MOHAMMED IMRAM.M.I PARTICIPATED IN TWO DAY WORKSHOP "ADVANCED TECHNOLOGIES IN AUTOMOBILES" CONDUCTED BY GCT,COIMBATORE.

Poem/Art by students:

UNIQUE PAPER

● S. MUHAMMED HARRIS , II YEAR MECHANICAL ENGINEERING,SECTION"A"

THIS NIGHT SO LONG AND DARK
WITH NO MOONS OR STARS
STANDING ALONE IN MIDST OF WOODS
MY TEARS TRICKLING DOWN MY EYES
INTO THE RIVER THAT'S RUSHING BY
TREES THAT STOOD TALL AS A GUARD
VALLEYS TOO DEEP AND MOUNTAINS TOO HIGH
AND MEADOWS TOO WIDE
YET I SEE NO SIGN OF BEAUTY
AS THE NIGHT IS DARK SO AS MY MIND

I WALK, SLIP, HIT, BLEED AND SHOUT
NO ONE KNOWS I'M ALONE
NOW I FEAR THE SILENCE
THAN THE ROAR OR HOWL
I TURN TO MY LEFT AND RIGHT
ALL ARE THE SAME
IT IS LIKE A TOMB OR WOMB
I FELT NOTHING THAN PAIN
BLIND, DUMB, OR DEAF AM I?
TO SEE, SPEAK OR HEAR NOTHING
I LOST MY TRACK
NOW I SIT ON A STONE THAT'S SLIPPERY
RECOUNT, THE THINGS THAT MADE GOD ANGRY

NO DESERT AS DRY AS MY LIFE
SO DROUGHT BECAME MY PATH
IT IS THE PAPER THAT IS UNIQUE THAT MADE THINGS BLEAK
NOW I OWN A SIN WHICH I DIDN'T BUY
MY DAYS OF LOYALTY AS BECAME A TATTERED PAGE
IT IS THE FRIEND FROM MY CHILDHOOD
HE WAS A FIEND LOYAL AND TRUE
ALONGSIDE ME IN AUTUMN AND SPRING
NO MOOD THAT'S TOO BAD SEPARATED US



NEITHER CASTE NOR RELIGION DISTINCT US

**BUT NOW HE BETRAYED AND STABBED ME
BECAUSE OF THE UNIQUE PAPER
YOU CAN FIND FATES OF MILLION IN IT
IT BUILDS YOU ROOF
BUT NOW, WITH A ROOFLESS NIGHT
SO COLD AND BITTER
I WALK, SLIP, RISE AND FALL**

**NO DOORS DID OPEN WHEN I KNOCKED
ALL HEART SO DARK TO CARE ME
EVERY EYE TOO BLIND TO SEE ME
ALL TALKS TOO SHORT TOO SHORT TO SPRINT AWAY**

**BUT THERE WAS A TIME,
WHEN SUN WAS SHINING
I WAS LOVED AND PRAISED
LIKE A PRINCE IN THE COUCH
SO MANY HANDS TO SERVE
WITH THE UNIQUE PAPER**

**NOW I'M CRYING SO DID THE HEAVEN AS RAIN
I FEEL LIKE DYING, SO DID THE THUNDER STRUCK
THE WHOLE WORLD DID SHRINK, LOST ITS BEAUTY
I FELT THE END, WITH HER WORDS
THE SUN MELTED AWAY AND PACIFIC DID ROAR
NO PEN DID WRITE NOR SONGS ANYMORE LURED
ALL FLOWERS LOST THERE FRAGRANCE
PEOPLE WENT INSANE, THE TIME DID FREEZE
ALL IN MY HEART AS I SAW MY LOVE DEPART
BIDDING FAREWELL**

**MY LEGS MADE NO GROUND TILL I'M HERE
NOW SITTING IN THE SLIPPERY STONE
AND BELIEVE GOD HAS NO ANGER
ONLY PEOPLES ARE MAD AT THE UNIQUE PAPER**

**THERE COMES THE SUN IN THE HORIZON
LIKE A SUN THAT IS TRUE AND PURE
I'LL RISE NICE AND WISE
WITH NO LUST FOR THE UNIQUE PAPER**

- S. Muhammed Harris





S. Alphonse

S. Alphonse Infant Leo
final year Mechanical



THE WOLVERINE

BY:
R Srinivasan

O Rings

SPRINGS

Key Stock +
Swivel ends

W
SH
Se

3/8

ie

pe

JIC + Apc
Fittings



R. Srinivasan

R. SRINIVASAN

FINAL MECH



PPF

RAJKUMAR

Final Mechanical