

A CELEBRATION OF ENGINEERING — HONORING ACHIEVEMENT

# mechanical engineering

THE

# MECH MAGAZINE

**APRIL EDITION** 

THE EPIC

Maathiyosi





STAFF COORDINATORS

Ms. A MERCY VASAN, M.E.,

Ms. R.S Shiva Ranjani, M.E

# STUDENT COORDINATORS

**DINESH PRABHU.D, II YEAR MECH** 

GOWTHAM. B, U YEAR MECH

SANTHOSTH.S, II YEAR MECH

SEENU, II YEAR MECH

# VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

State the Vision and Mission of the Department and Institute (5)

#### **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 Wodel 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 losting to holistic learning.

#### State the Program Educational Objectives (PEOs) (5)

**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.

PEO IV : To provide opportunity to students to involve themselves in various social activities.

#### 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.

# SAE BAJA [1] 2016-2017 - SAE – BAJA Competition – Design and Fabrication of



All-Terrain Vehicle (ATV) is a vehicle that travels on low-pressure tires, with a Seat that is straddled by the operator, along with handlebars for steering control. As the name implies, it is designed to handle a wider state of terrain than most other vehicles.



Here a team comprising of 25 Mechanical Engineering students was formed and deigned ATV. The team presented their design in CHRIST UNIVERSITY, Bangalore on 24 and 25th June of 2016. The team SCE-FURYDO RACING secured 153rd rank in the Nation-wide competition. The team had Mr. A.Ranjith Raj and Mr. J. Sivasubramanian as Faculty advisors.



#### [3] SAE AERO DESIGN CHALLENGE

The purpose of the SAE ISS Aero Design Challenge is to promote and develop Indian expertise and experience in unmanned systems technologies at the university and college levels. Even small scale unmanned vehicles are complex systems requiring a well planned and executed design approach. In addition, safety considerations are important factors in this competition as in any other vehicle design project.

The Final Flight Competition
(3 Day Event) is divided in to 3 phases

#### Phase 1:

UAV Design and Design Report Submission Teams will electronically submit their proposals for competition detailing how their design has met or exceeded the design requirements.

#### Phase 2:

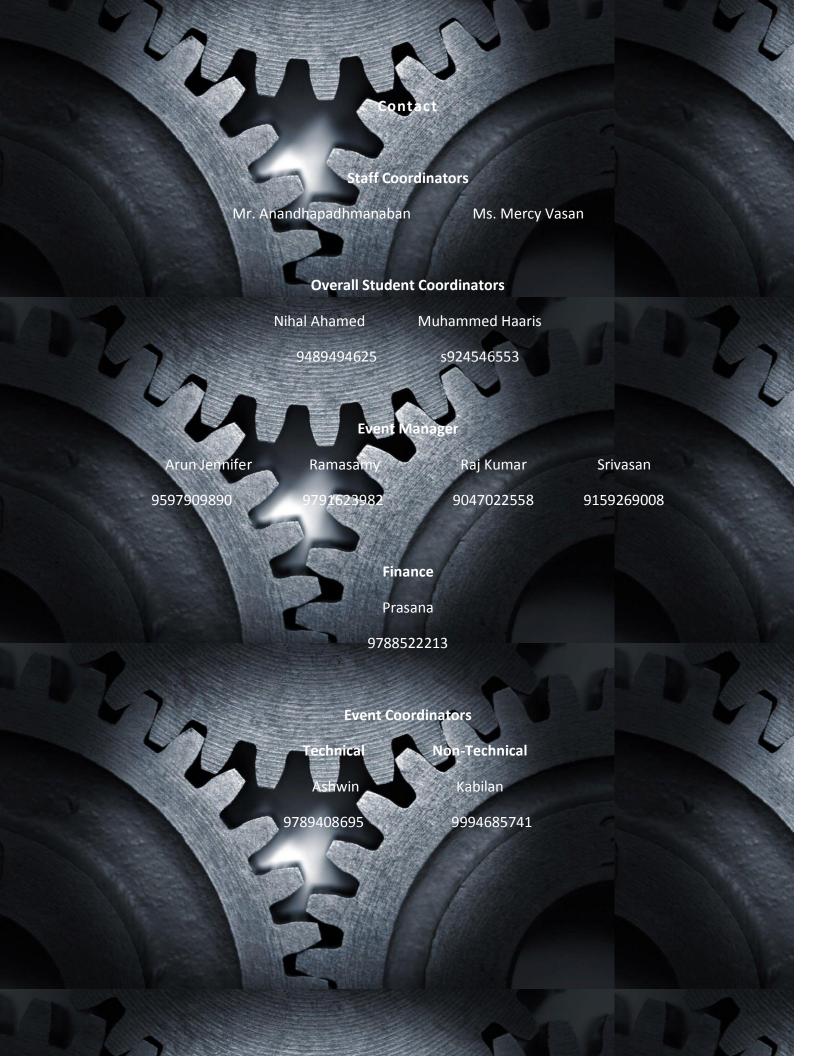
Technical Presentation
Oral Presentation, Proposed Loading and Unloading Demonstration.

#### Phase 3:

Technical Inspection and Flight Round

Three teams from our college comprising 4 students were guided by three individual faculties and secured 7th, 14th, and 49th places.





#### Symposium

Efficiency 2017 is a national level technical symposium conducted by students of department of mechanical appartment of Saranathan College on March 10<sup>th</sup> 2017. It consisted of the following events;

#### **Technical Events**

#### 1. Paper Presentation

The theme for paper presentation was given as "all mechanical stream" as well as "smart technologies". The participants had to submit the abstract of their paper via email, 'efficiency2k17@gmail.com'. Then the participants were shortlisted and then asked to present on the day of the event.

#### 2. Project expo-

The theme for project presentation was given as "all mechanical stream" as well as "smart technologies". The participants had to submit the abstract of their project via email, 'efficiency2k17@gmail.com'. Then the participants were shortlisted and then asked to present on the day of the event. The participants were asked either to display their project or make an presentation, in case they could not transit their work.

#### 3. Kurzgesagt

The idea of this event was not well renowned and it was first of its kind. Kurzgesagt is a German word, which means 'in a nutshell'. The participants were asked to choose a subject of their own and then need to present them within few minutes. The judging was based on; how big the subject was, how much the participants have covered the subject and then the clarity of the presentation.

#### 4. The machinist

It is a core mechanical event, where the participants have to produce the component from the given and material and the design, that is made by the coordinators of the event.

#### 5. Water rocketry

This event is a standard one, in which the participant is expected to build a rocket model out of standard 2-liter bottle. Then the water is filled, for the participant desired amount and then compressed with issued compressor for not more than 60psi.

#### 6. CAD modelling

Using the designing software, the participant had to bring out the 3D model from the orthographic view given. Also the weight of the model was asked to be measured. The judging criteria for this event was based on the time taken and accuracy.

#### Non Technical Event.

#### 1. Chaos theory

This is also an all new event. The main objective of the event is to relate two different irrelevant things. The participants had to use logical and analytical method in order to relate the objects. The marks were based on the number of links and logics used.

#### 2. Dubsmash

As the name suggest, this event runs on the popular mobile app, 'Dubsmash'. Participants has to give a lip sync to the played audio. The points were given based on how the participants delivers the dialogue.

#### 3. Dumb Charades

It's the classic picnic game, where one of the participants will act out the word given to them and the other pavers of the team will figure the word out.

#### 4. QuizUp

QuizUp is also a mobile application. The app is for quizzers. This event was played using the app. The players take on each other on a head to head match and move up the round. Prizes was given to the winner and runners of the finals.

#### Introduction

This symposium is a product of lots of hard work and dedication from both the faculties and students. A meticulous planning was required. The proceedings were carefully made and then they were scheduled and executed. It required a team able to perform lot of weeks of work, in days. The work that was performed by the team will be given down, as well the mishaps and troubleshooting that was performed will be followed.

#### **Brainstorming**

The team members of the symposium were decided by the heads of the symposium. Then a meeting was held for the core team members for brainstorming, in which major decision was taken. The proceedings of the event were discussed. The list of events was created and the rules which abide them was made. Some of the events were totally new and different, which was structured from bottom-up.

The few mishaps that we encountered regarding the brainstorming session are as follows. We were not able to convey the messages to the event coordinators successfully, since most of the decisions were tentative and bound to change. Some of the coordinators could not grasp the concept of their respective event, which actually led to confusion. Due to this, the core team had to help the coordinators through the proceedings of their events.

It is very important to build up the base for the symposium, so the first step which is the brainstorming session should be well enough. This must be followed up by further meetings.

#### Budget

The entire symposium would be structured by the budget that is made. The major part of the money is spent on a s. The money allotted for the prizes should fit with the budget that is made. We agreed on having different amount of prize money for different events. Also prize amount differed on the basis of the institution. We split the prizes for Saranathan and non Saranathan candidates, in order to avoid the comments on prejudicial act of the judges. The money was collected from the students of mechanical department. Also the institution will cover the expenses if approached.

The budget could be partially covered back with the money received as the entry fees and fees for the workshop. A very trustable and accountable person should be appointed as the head of finance. Every thing must be billed and submitted.

## **Budget Estimation**

#### Prize Money

- Technical 6 events 1st Prize Rs 1200 2<sup>nd</sup> Prize Rs 800 • TOTAL Rs 12000
- Non Technical 3 events
- Rs 700 1st prize 2<sup>nd</sup> prize Rs 300 · TOTAL • TOTAL Rs 15000
- Certificates
  - Rs 7000 300 nos. (Approx. Rs 25- Rs20 Each)
- - 500nos x Rs 10 Rs 5000

#### **Publicity**

- Invitation
  - 100nos x Rs 20 Rs 2000
- Poster
- 100nos x Rs 30 Rs 3000
- TOTAL Rs 10000 (including other publicity work and ambience work)
- Miscellaneous
- Pen 300nos x Rs 5
- Rs 1500
- Notebooks 300 x Rs 10
- Rs 3000

Rs 5000

Rs 46000

Rs 50,000

#### **Publicity**

The important thing for a symposium is its reach. The success of the symposium is decided by the number of le turn out on the day. The major job of the team is to make a proper publicity at various stages and in varying approaches before the day of the symposium.

1

It

was

way

it



d the important details in a brief fashion. Then the poster was given to print and then mailed to various colleges in and around Trichy. The publicity crew were sent out to the different Institutions and conveyed the message about the symposium and handed over the posters and the invitations

#### 2. Websites

We created a website through wixsite, 'efficiency2k17.wixsite.com/mech'. The website carries every bit of commation that is related to the symposium from venue, time till rules and judging criteria. Basically the home page contains the titles of the events and when the title is chosen the event page will open. The event page contains the 1.Description 2.Event format 3.Judging criteria 4.Contacts.

We learnt it's better to buy a domain for the website, since it's the first step of contact that the participant acquires with us. The website name must be simple and catchy so that the people would be able to identify and access it easily. The website should be made fully ready before the poster are handed out. Nothing should be left to chance in terms of the site. We had a little hiccup in making the site, anyway we improvised.

#### 3. Social Media

No one cares about things unless it hits the social media these day. Use them very effectively, create a page and share as much as possible relevant information via the page. We even used one of the about better known college site to share the information. There are certain famous pages within the city such as 'nammatrichy', through which we shared our information. We also paid facebook for boosting certain post, through which the reach can be extended.

#### **Ambience**

The decoration and environment is taken up by the ambience team. It's not the important part of the symposium yet it is the essence of the it. The ambience team makes up the decoration, the posters and banners. We tried to as much as economical with this, used old scrap and things to build a logo design structure. We made two banners, used college poles for flags.

#### Symposium day

Everything will not go as planned during the symposium day. But there are always ways to improvise, use the tactical mind, this day will bring out the best in you. It lights up the team spirits, makes you work as a unit.

#### Inauguration

Inauguration function should be meticulously planned and then well executed. It also must be well rehearsed. It is very important, since it gives the first impression and it should be great. Work with the stuff member, even have a word with the principal regarding this. Inauguration function is the part that we messed up this time, since we didn't put lot of time working on it.

#### Registration

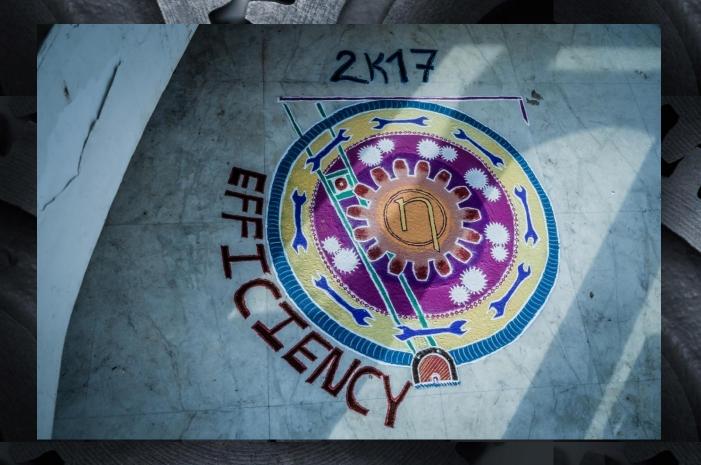
Care should be given in the registration desk, since it is the place money comes in and it should be given extra priority. Separate 1D cards should be provided for candidates who attended events alone and workshop, since they have different entry fees.

#### Event

The event should begin at the respective places at the right time and should be over within the stipulated time including the prize distribution. The rounds should be designed in a way that the timings are not disturbed and the participants don't have a problem in participating.

Most of the participants would take part in more than one event. The timings of the events should have been made to reduce this problem and schedule should have been made in such a way it allows participants to take part in different events. This could not be completely achieved though, therefore the participants who would like to go to other events should be given higher priority.

# GALLERY EFFICIENCY 2K17



Efficiency (2017) - Symposium







Students from various colleges attending our Symposium



Students performing in an non-technical event



Students fabricating water rocket



Students explaining the concept of NDT



Students listening to guest lecture



Students involving in an technical event



Students performing machining process in lathe for an event



Students and faculty members listening to an event

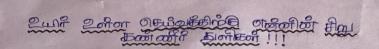


Faculty members distributing prizes for the winners



Faculty members distributing prizes for the winners





அனு வார் அவுகை சால்கை உன் கடுக்கு சால்கு கொண்டு உன் உயர் அவுகைய பொடுத்து சொண்டு சால்கு உயர்குத்தாயே,

அமை வரை கண்கள்கள் பாற்ற வரைக்கு குறைய்யாய் கண்டுகள்கள் இது வரை வரை வரை வரியில் வரைக்குவைக்கள்கள் இதையும் வரை வரை வரியில் வரைக்குவைக்கள்கள் வரையும் வரை வரையில் வரைக்கு கணையாய் கண்டுகள்கள்

ന് സ്കൂര്യ പ്രത്യായി വരുന്നു പ്രത്യായി വരുന്നു പ്രത്യാര്യ പ്രത്യായി പ്രത്യായി വരുന്നു പ്രത്യായി വരുന്നു പ്രത്യാര്യ വരുന്നു പ്രത്യ വരുന്നു പ്രത്യാര്യ വരുന്നു പ്രത്യ വരുന്നു പ്രത്യാര്യ വരുന്നു വര

பழ்ப்பு வராத்போதும் உண்ணால் இடியும் என்று கூறூரிக்கு அறுப்பிகள்கைய நான் காதல்ல் வடுந்தியபோகும் கூட எனக்கெ தொழியாக அடுத்து சைசைகாகத்தாயே.

വയുള്ള വസ്തുള്ള വായായുള്ള വായുള്ള വായ

TAMIL Poem Handwritten by Arun III Year Mech

நண்ணிடும் நண்ணி நண்டிய நூன் குறிம் புக்கும் நின்றிம் நின்றிம் நின்றிம் நின்றிம் தின்றிம் தின்றிம் தின்றிம் தின்றிம் தின்றிம் தின்றில் தின

TAMIL Poem Handwritten by Arun III Year Mech

# STUDENT ACHIEVEMENTS

# Student Achievements: Final year students:

#### Co-Curricular Activities

- 1. Najumudeen.SNaresh.VNeelakandan.R Nihal Ahamed.SSundarapandiyan.NVelan.S Venkat Prasanna.RVishnupriyan.A and Stanley Kishore.MP Participated in National level Workshop on 3D Printing at NIT Trichy in March.
- 2.Porpanesh.VRamaswaamy.ARN Participated in National level Workshop on Automobile Emission Control in BIT campus Trichy.
- 3. Prabakar. KSPrabhu Dass. DPradeep. RSelvaganapathi. PPrakash. RSenthilkumaran. B Siva Prakash. S Participated on National Level Workshop in NDT at NIT Trichy.
- 4.Raja Samuel. ASenthilkumar. N Participated in National level Workshop on Tools And Implementation at Sri Krishna College Coimbatore.
- 5.Ramaswaamy.ARN Participated in National Level Workshop on Locomotive at CIT college Coimbatore.
- 6.Saravana Kumar.M Participated in National level Workshop on 3D Animation at IIT Chennai.
- 7. Sudharsan. S Participated in National level Workshop on Autotrix at NIT Trichy.
- 8.Stanley Kishore.MP Participated in National level Workshop on Linen Tools And Technique at Sri krishna College Coimbatore.
- 9.Sankara Narayana Prasath.SSenthilkumaran.B Sarayana Kumar.M Participated in National level SAE Aero Modelling Competition at Ramakrishna College of Engineering Trichy.
- 10.Praveen.BRaghuraman.P Arul S Participated in National level CADD Modelling Competetion at Kongu College of Engineering Erode.
- 11.Raj Kumar S presented a paper at P.A.College of Engineering and achieved IIIrd Prize.
- 12. Raj Kumar S presented a paper at Mahindra College of Engineering.
- 13.Mr. M.B.M. Manikandan, P. Kishore Kumar, S. Kathir Selvan, D. Albert Won State Level Best Project byInternational Society for Scientific Research and Development (ISSRD), Engineering Students Innovation Challenge 2017 on 28-29 January 2017.

14.Mr. M. Moorthy, Mr. R. MathanBaba, Mr. E. Kumaresan received fund from The Institution of Engineers (India), R & Camp; D Grant-in- aid scheme, Experimental Investigation and Optimization of Milling Parameters for Machining Aluminum Silicon Carbide Composite using Design of Experiments Approach. (Project I.D. UG2017020) Sept 2016 - Rs. 36,000/-

15. Vineesh. Rcompiled an e-book—"Basics of 3D printing" at Amazon Kindle.

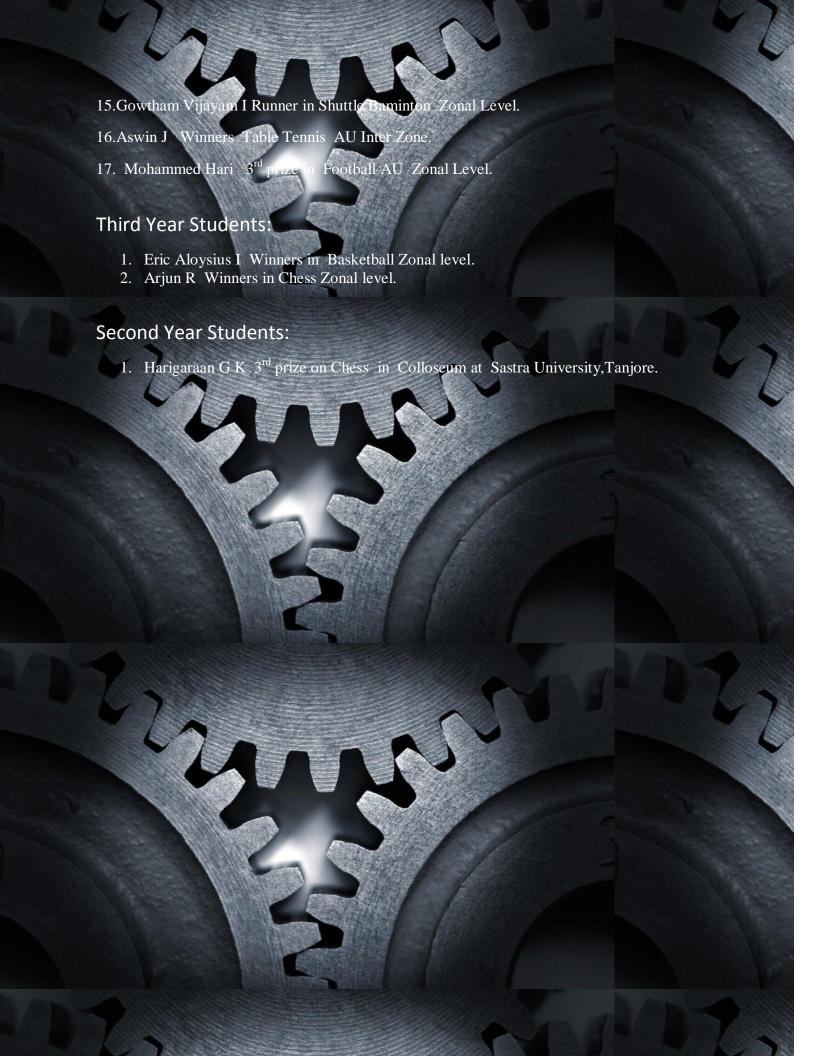
#### Extra-curricular Activities:

#### Final year students:

1.PrathapAdaikalaraj.V Basketball Team Anna University-Winners

Praveen.BRaghuraman.P

- 2. Arul. S Presented a paper in Konggu Engineering College and secured 1<sup>st</sup> place and secured 3<sup>rd</sup> place in P.A College of Engineering.
- 3.Porpanesh. VPrabakar. KsPrabhuDass. DPradeep. R Basketball Team Anna University Winners.
- 4.Raj Kumar S Aravinth C Aswin Kumar C presented a paper on Self Balancing Of Two Wheeler Prototype Using Gyroscope and secured 1<sup>ST</sup> in National Level Symposium at MahendraEngg College.
- 5.Suraj S.S achieved in Table Tennis Cm Trophy-Ditrict Level –Winner- Cm Trophy-Regional Level –Winner Colloseum-National Level-Runner District Level -Singles- Runner District Level -Doubles- Winner Au Zonal-Winner State Level-Winner Au Level-Runner National Level-Winner Ictact-Winner.
- 6.Prasad.M achieved in Football as 3rd Place In Zonals and Won League Match Conducted By TDFA.
- 7. Prakash R achieved in Football and Won League Match Conducted By TDFA.
- 8.Raghuraman.P is in Basketball Team and one of the Anna University-Winners.
- 9. Eric Aloysius I is in Basketball and one of the Zonal Level-Winners.
- 10. Arjun R is in Chess and one of the Zonal Level-Winners.
- 11. Godwin Lourd Daniel. A' is a Rotary District Level-Winner.
- 12.Ramanathan M is a runner of Zonal Level Shuttle Baminton.
- 13. VenkatanathanS is the State Level -3<sup>rd</sup> Place in Pits Spotiva.
- 14. Nandha Kumar A is District Level 3rd Place (Under 95 Kg) in Power Lifting.



# STAFF ACTIVITY

#### Achievements of the staff members

#### Papers published in National/International Journals:

- 1. G.Jayaprakash, "Parametric Analysis Of Laser Cutting Of Mild Steel Material" Journal Of Chemical And Pharmaceutical Sciences, Vol., Issue: 10–1 Pages 385-388, Jan 2017.
- 2. G.Jayaprakash, "Optimization Of Tolerance Design For Mechanical Assembly Under Thermal Impact Using Fea." Int. Journal Of Advanced Manufacturing Technology, (Under review).
- 3. Baskar, N, AnanthaPadmanaban. MR,&Devakumaran, K 2016, 'Analytical Model for estimation of heat transfer in Gas Metal Arc welding torch nozzle', Asian Journal of Research in Social Sciences and Humanities, Accepted, publish on September 2016, ISSN: 2249-7315. (Updated List of Journal 2016 / sl.no. 1107).
- 4. Baskar, N, AnanthaPadmanaban. MR,&Devakumaran, K 2016 'A Study on Process Characteristics and Performance of Hot Wire Gas Tungsten Arc Welding Process for High Temperature Materials', Materials Research Ibero-american Journal of Materials.
- 5. Kannan, S, Baskar, N, Suresh kumar, B & Damp; Varatharajulu , M. 2016, 'Optimization of Face Milling Parameters for Material Removal Rate and Surface Roughness on Inconel 718 using Response Surface Methodology and Genetic Algorithm', Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 9, September 2016, pp. 1198-1211. (ISSN 2249-7315)
- 6. Kannan G, Balasundaram, R. Baskar, N, & Daskan. P. 2016, 'A hybrid approach for minimizing makespan in permutation flowshop scheduling Article' Journal of Systems Science and Systems Engineering, DoI: 10.1007/s11518-016-5297-1 First online: 27 January 2016, Print ISSN 1004-3756. (Annexure-I) IF-0.68.
- 7. M. Varatharajulu, G. Jayaprakash, N.Baskar, B. Suresh Kumar, Comparison of Response Surface Methodology and Taguchi Analysis for Determining Appropriate Drilling Parameters of Duplex 2205, Asian Journal of Research in Social Science and Humanities, Vol. 7, No.1, January 2017, pp. 1237-1261.
- 8. K.Ramesh and Dr.N.Baskar, An application Traditional and Nontraditional Approach on Lock Industry for Optimization of Cutting Layout, Asian Journal of Research in Social Science and Humanities, Vol. 1, No.1, January 2017, pp. 578-593.

- 9. Ganesan M, Karthikeyan S, A. Ranjiff Raj, "Experimental Investigation Of Titanium Based Crank Shaft Using Finite Element Method", International Journal Of Innovative Research In Technology, Vol. 03, No.02, July 2016, pp-222-225.
- 10. Mercy Vasan, A, Gopalakrishnan V, Prasanna, N & Samp; Vivekanandan, M 2016, 'Predicting Tool for Cyclone Separator with Simple Mathematical Model using RSM', Asian Journal Of Research in Social Sciences and Humanities in, ISSN:2249-7315(online), Updated Journal List 2016-.S.No.1107.
- 11. Mercy Vasan, A, Prasanna, N, Vivekanandan, M & Damp; Gopalakrishnan, V 2016, 'CFD investigation of the cold hydrodynamics of a laboratory scale CFB furnace', Journal of advances in Chemistry, ISSN 2321-807X, vol. 12, no. 9, pp. 4330-4340, Updated Journal List 2016 and current Annexure I.
- 12. Rekha. R, Baskar.N, Palanisamy.A "Regression ModelingAnd Simulated Annealing Approach For Optimization Of Cylindrical Grinding Process", International Journal Of Manufacturing Technology And Management, (Under Publication).
- 13. Rekha.R, Baskar.N, "Prediction Of Pareto Optimal Solutions For Multiple Responses In Cylindrical Grinding", Asian Journal Of Research In Social Sciences And Humanities, Volume & December 2018, 1881–1882.
- 14. Rekha.R, Raymond.A, Sabarish "Taguchi Based Optimization Of Cylindrical Grinding Process", International Journal For Scientific Research And Development (Ijsrd), Volume & Samp; Issue 4 & Samp; 7, pages 242-245, Oct-16.

#### Research Details of Faculty:

- 1.Dr.G.Jayaprkash is an active research supervisor for Anna University, Tamil Nadu. He is currently guiding Seven research scholars.
- 2. Mr. M. Sridharan is doing Ph.D in Anna University under the guidance of Dr.G.Jayaprakash/HOD MECH and he has completed her Ph.D course work at NIT Trichy in the odd semester 2016-2017.
- 3.Dr. N. Baskar is another Research Supervisor for Anna University, Tamilnadu. He did Successfully completed guiding two people. Three staffs have Submitted their thesis among which Ms.R. Rekha and Mr. Ananthapadmanaban included.
- 4. One another scholar of Dr. N. Baskar has completed his Comprehensive viva-voce.
- 5.Mr. S. Karthikeyan and Mr. A. Maria Jackson also have registered their part time Ph.D with Anna University Chennai Under the guidance of Dr. N. Baskar.
- 6.Ms. A. Mercy Vasan submitted her thesis of Ph. D under the guidance of Dr. V. GopalaKrishnan on 23-02- 2017.

#### Sponsored / Aided projects:

1.Fund received from The Institution of Engineers (India), R & D Grant-in- aid scheme, Experimental Investigation of Optimization of Milling Parameters for Machining Aluminum Silicon Carbide Composite using Design of Experiments Approach. (Project I.D. UG2017020) Sept 2016:-Rs. 36,000/-

Students Name: Mr. M. Moorthy, Mr. R. MathanBabu and Mr. E. Kumaresan

Guide Name: Dr. N. Baskar and Dr. M. Ganesan

2.State Level Best Project - International Society for Scientific Research and Development (ISSRD), Engineering Students Innovation Challenge - 2017 on 28-29 January 2017.

Students Name: Mr. M.B.M. Manikandan, Mr. P. Kishore Kumar,

Mr. S. KathirSelvan and Mr. D. Albert

Guide Name: Dr. N. Baskar and Dr. M. Ganesan

3. Autodesk 360 Fusion design contest was organized by ICTACT, many of our students has participated in the same.

## Funding Proposals:

Funding proposals submitted to AICTE, TSCST:

S.No.	Proposal title	Members	Workshop/FDP/ Conference	Agency	Date
1	Experimental Evaluation and Analysis of Milling Process Parameters for various work piece materials.	Dr. N. Baskar  Dr. M. Ganesan  Mr. A. Maria  Jackson	Research proposal	RPS (AICTE)	Jan 2017
2	Experimental Evaluation and Optimization of Drilling Process Parameters on Aluminium Silicon Carbide Composite using Design of Experiments Approach.	Dr. N. Baskar Dr. M. Ganesan	Project Proposal	TSCST	August 2016
3	Technological and computational advances in Mechanical Engineering.	Dr. N. Baskar Ms.R.Rekha	FDP	AICTE	Jan 2017
4	Advanced  Manufacturing  Technology.	Dr. N. Baskar Ms.R.Rekha	Project Proposal	DST	Jan 2017
5	Thermal Engineering Lab	Dr. D. Valavan Ms. A. Mercy Vasan	Lab Facility	MODROBS	Jan 2017
6	Thermal Engineering Lab	Dr. D. Valavan	Lab Facility	AQIS ,AICTE	Jan 2017

# Students Internship details:

	NAME AND ADDRESS OF THE PARTY O	\$\rightarrow\tau=\tau=\tau=\tau=\tau=\tau=\tau=\tau=		
S.no	Student Name	Year Company		
1	RAMPRASAD G	G- DMRL, Gummidipoondi		
2	SENKATHIR.V	2017		
3	VENKATESH R	Brakes India Ltd., Padi		
4	VIJAYARAM C			
5	SOLAMUTHU K	2017 VX Energy Pvt. ltd		
	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	ALTER TO SELECT THE SE		

## Exclusive Value Added Training for Students:

ALLEN				
S.No	Date & session	Title of the course	Trainer	Participants
1	01.06.16 to 29.07.16  Alternate working days.  5:00 to 6:30 pm	AUTODESK INVENTOR 2016	A.Maria Jackson, Department of Mechanical	60 students of Third Year Mechanical
2	02.06.16 to 22.07.16 Alternate working days. 5:00 to 6:30 pm	AUTOCAD 2016	A.Ranjith raj and B.Vikram Department of Mechanical	36 students of second Year Mechanical
3	01.09.16 to 17.02.2017	CREO	CADD centre	30 Students of Mechanical Engineering
4	14.12,2016 to 16.12.2016	Applied Hydraulies and Pneumatics	Ms. R.Rekha, Mr. R. Kumar, Mr. B. Vikram, Ms. RS. Shivaranjani	30 Third Year students
5	05.12.16 to 16.12.2016	CNC Programiing skills	Mr. R.SureshBabu and Mr. S. Karthikeyan	20 Third Year students
6	05.12.16 to 16.12.2016	CREO	Mr. M. Ganesan	20 Third Year students

#### Workshop/Seminar/FDP attended by Faculty:

- 1.Dr. G. Jayaprakash, HOD/ MECH, attended FDP on "CFD" on 06.06.16 to 10.06.16at SASTRA university.
- 2.Mr.A.Ranjithraj, and Mr.M.Sridharan, AP/MECH, attended TEQIP II Sponsored Workshop on "Design and Analysis of Mechanical Systems (DAMS)" 19.12.16 to 24.12.2016 in NIT Trichy
- 3.Mr.A. Saravanan, AP/ MECH, attended FDP on "Challenges in Manufacturing" on 26.12.16 to 30.12.16inNIT Trichy.
- 4.Mr.A.Maria Jackson, AP/MECH, attended TEQIP II Sponsored FDP on "Design of Experiment and Programming Skills for Advanced Research" 14.12.16 to 21.12.2016 in GCE, Salem.
- 5.Mr. S. Sathyanarayanan, A.P/MECH, attended the inauguration of Indian Society of Systems for Science and Engineering, ISRO at SASTRA University on 15/12/2016.
- 6. Mr. S. Vinothkumar AP/MECH, attended TEQUIP II sponsored FDP on "Challenges in Manufacturing Leading to Innovation" on 26.12.16 to 30.12.16 inNIT Trichy.
- 7.Mr. R. Kumar, Ms. RS. Shiva Ranjani AP/MECH attended FDP on "Quantitative aptitude" Conucted by our Maths Frankment on 22 Dec 2016.
- 8.Mr. A. Maria Jackson, Mr.A.Ranjith Raj, Mr.E.Navin Prasad, Mr. S. Vinothkumar, Mr. G. Mahesh, Ms. R. Rekha, Ms. A. Mercy Vasan, Ms. RS. ShivaranjaniA.P/MECH attended an FDP on "Pedagogic communication" on 27/12/2016 organized by English department of our college.

#### Workshop Organised:

Two days workshop on "ANSYS - FEA" was conducted by ANSYS people for the III year MECH students on 17/02/2017 & the III year MECH students on 17/02/2017 amp; 18/02/2017.

- 2. Two day workshop on "ANSYS CFD" was conducted by ANSYS people for the III year MECH students on 02/03/2017 to 04/03/2017
- 3. One day workshop on "AUTODESK FUSION 360" conducted by ICTACT on 30.12.2016.
- 4. Two day workshop on "ALTODESK INVENTOR 2016" by ICTACT for Third year Mechanical students on 05.08.2016 to 06.08.2016.
- 5. Two day workshop on "AUTOCAD 2016" by ICTACT for Second Mechanical students on 23.07.2016 to 24.07.2016.

#### Guest Lecture/ Training Organized By MECH Department:

S.N o	Date Session	Resource Person	Title of the Lecture	Partcipants
1	07/02/2017	Prof. T. Venkatesan, Director, Fifth wheel Drive	Automobile Engineering	THIRD MECH A section
2	15/02/2017	Prof. T. Venkatesan, Director, Fifth wheel Drive	Automobile Engineering	THIRD MECH B section
3	10/02/2017 AN	Dr. M. Kanthababu, Anna University Chennai.	Abrasive water jet machining	III year
4	23.08. <b>20</b> 16 FN	N Lakshminarasimhan, Brakes India PvtI	HR MEET	IV YEAR
5	23.08.2016 AN	Vamasamoorthy. <b>H T</b> imken	HR MEET	IV YEAR
6	24.09.2016	Mr. S.Suresh, NIT, Trichy	Heat and Mass Transfer	III YEAR
7	24.08.2016	Mr. Naveen Alexis, Mr. Deepan Raj, INFOSYS	Mock Interview	IV YEAR

## Spoken tutorial Quality Improvement Cell:

1.SCILAB, had been thought to final year, third year MECH students through Spoken tutorial to improve their technical skills. The basic concepts of SCILAB software were explained in the session. Students four theoretine interesting that it enabled the students to solve the exercises simultaneously in SCILAB window.

2.And also students successfully cleared the online certification Exam, the details are given below.

