

NEWSLETTER 2018

DEPT. OF MECHANICAL ENGINEERING



ACS
College of Engineering

#207, Kambipura, Mysuru Road, Kengeri, Bengaluru-560074
Approved by AICTE, New Delhi, Affiliated to VTU, Belagavi.



Principal's Message

I am proud that the Department of mechanical engineering is presenting an issue of news letter with talents of their students and faculty. I am sure that the forum encourages the students and faculty of the department to achieve their best.

HOD's Message

At the outset, I congratulate the editorial board for their solidarity in bringing out the newsletter, of the "spark" with flying colors for the academic year 2017-18. I feel very glad to have the most hardworking result oriented, highly motivated dynamic faculty & staff in the department. I hope this issue of the newsletter comes with more features, brings out the achievements of students & staff and will be the foundation for the upcoming semester for achieving new heights. I wish the editorial board all the success. Each day is the stepping stone for tomorrow. Let all of us with great solidarity strive for better tomorrow.

Message from Editors

Greetings and a warm welcome to our "Spark". We are happy to bring out this news letter which aims to create a forum for exchange of information on all aspects of Mechanical Engineering Department. Thank you all for your kind wishes and support.

Association of spark Mechanical Engineers

The mechanical departmental association SPARK was started in the year 2010. The association effectively brings the students of the department together and bridges them to the outside world.

VISION

To create a center of global standard for imparting education in Mechanical Engineering field and conducting research at the cutting edge of technology to meet the current and future challenges of technological development.

MISSION

To build enabling environment for excellent teaching, learning and research in order to produce leading entrepreneurs and innovators in the field of Mechanical Engineering for sustainable improvement.

Industrial Visits

The Department of Mechanical Engineering, ACS College of Engineering organized a one day Industrial Visit to “**Mahatma Gandhi Institute of Rural Energy Development**” Bangalore on **1st September 2017** for Second year students. The visit was organized with the prior permission and guidance of beloved HOD **Dr. M. Eswaramoorthy** and **Prof. Sunilraj B.A.** A total 45 students along with 2 faculty members have joined the visit.



The Department of Mechanical Engineering, ACS College of Engineering organized a one day Industrial Visit to “**Accutech Enterprises**”, Peenya, and Bangalore on **19th August 2017** for third year students. The visit was organized with the prior permission and guidance of **Prof. Sunilraj B.A.** A total of 32 students along with 2 faculty members have joined the visit.

Technical Talks

International Seminar on “**CO₂, Respiratory Quotient (RQ) & Biomass Energy**” under ISTE Faculty Chapter. Resource Person : **Prof. Kalyan Annamalai**, Texas A & M University, Texas, USA conducted on 04th January 2018.

Special Lecture On “**Sustainable Material & Manufacturing Process**” by **Dr.N.L. Parthasarathi**, Scientist, Department of atomic energy, Indira Gandhi centre for atomic research, Kalpakam.

Prof. Durkesh S Nadig Principal Research Scientist, Centre of Cryogenic Technology, IISc Bengaluru has delivered IISc Extended Lecture on “**Introduction to Cryogenics**” to our third year Aeronautical and Mechanical Engineering Students at Second Floor Seminar Hall at 2.10 PM to 3.20 PM on 21st August 2017. Prof. R.R.Elangovan HOD of Aeronautical Engineering has given the memento to the guest speaker on behalf of the Management and Principal.

Prof. Parameshwar P. Iyer, IISc Bengaluru delivered lecture on **Intellectual Property Rights(IPR) and Entrepreneurship** to third year B.E Mechanical Engineering and B.E. Aeronautical Engineering students under IISc Extended Lecture Programme on 28th August 2017 at Second Floor Seminar Hall, ACSCE.

Prof. Vikaram Jayaram, Chair, Mechanical Engineering Sciences, IISc Bengaluru has delivered IISc Extended Lecture on “**The World of Materials in Engineering**” to our second year Aeronautical and Mechanical Engineering Students in Second Floor Seminar Hall at 9.30 AM to 10.30AM on 30th August 2017. Dr.M.Eswaramoorthy welcomed the Guest Speaker by Flower Bouquet.

Dr Vitala H R, Professor, Department of Mechanical Engineering, SJB Institute of Technology, Bengaluru delivered a lecture on “**Overview of Mechanics of Materials**” at ACSCE II Floor Smart class room on 26/10/17 which is organized by Department of Mechanical Engineering, ACSCE. All 3rd Semester students attended the Guest Lecture and utilized it for their academic growth and to gain knowledge in the subject. Dr Vitala H R talk covers the following areas: Introduction to Stress and Strain, Thin and Thick cylinder, Shear force and Bending Moment Diagram, Strain Energy etc.

Dr G Balakumar, Associate Professor, Department of Mechanical Engineering, Sir M Visveswaraya Institute of Technology, International Airport Road, Bengaluru delivered a lecture on “**Principles and Applications of Non-Traditional Machining**” at ACSCE II Floor Seminar Hall on 14/10/17 which is organized by Department of Mechanical Engineering, ACSCE.

Workshops

- Three Day workshop on Writing research proposal, IPR and Patenting under ISTE. Conducted on 31st July to 2nd August 2017.
- Two days National level workshop on “Entrepreneurship Awareness Camp” sponsored by “Entrepreneurship Development Institute of India” Ahamadabad conducted on 17th to 19th August 2017
- Two days National level workshop on “Entrepreneurship Awareness Camp” sponsored by “Entrepreneurship Development Institute of India” Ahamadabad conducted on 15th to 18th February 2018
- Two days workshop on “IC Engine Overhauling Hands on Experience” organised by Department of Mechanical engineering on 16-17 April 2018



Achievements of Students

Karnataka State Council for Science and Technology (KSCST), Indian Institute of Science, Bangalore (Government of Karnataka) sponsored Final Year Projects at ACSCE for the Academic Year 2017-18, under Students Project Proposal-SPP: 41th series.

STUDENT'S NAME	PROJECT TITLE	GUIDE NAME
Javad Ali Mohammed Mujeer Shahabaz Khureshi Ayub Mohammed Ateeb	NANOSTRUCTURE AND MECHANICAL PROPERTIES OF TITANIUM ALLOY PROCESSED BY CONSTRAINED GROOVE PRESSING	Dr. H. S. SIDDESHA
Chethan kumar patil Sharath Gowda Kiran Gowda	AN EXPERIMENTAL INVESTIGATION OF THE PERFORMANCE OF SINGLE CYLINDER CI ENGINE FUELLED WITH BIODIESEL AND HYDROGEN	Dr. R. SIVA SUBRAMANIYAM

Javad Ali, Mohammed Mujeer, Shahabaz Khureshi P, Ayub Mohammed Ateeb, H.S.Siddesha and Shantharaj M, **"constrained groove pressing OF Aluminum alloy"** International Conference on Sustainable Engineering & Technology ICONSET-2018 At ACSCE, Bangalore, 19th-20th June 2018.

Devaiah M. V., R. Siva Subramaniyam, Rakesh S., **"Solar Hybrid Vehicle"** International Conference on Sustainable Engineering & Technology ICONSET-2018 At ACSCE, Bangalore, 19th-20th June 2018.

ACSCE Mechanical Engineering Department 3rd year students; Devaiah, Akash, Usha, karthik bharathdwaj and Prasanna vignesh participated in **JNANA VIJNANA TANTRAJNANA MELA (JVTM)** at Sri Adichunchanagiri Mahasamsthana Math, Karnataka on 19th & 20th February 2018 and got the prize.

SOCIETY OF AUTOMOTIVE ENGINEER'S - Baja SAE is an intercollegiate design competition run by the Society of Automotive Engineers (SAE). Teams of students from universities all over the world design and build small off-road cars.
Our students currently working on BAJA project and participate in the competition at prithampur, Indore.



Achievements of Faculties

Dr. H S Siddesha, Dr. R Sivasubramaniyam, Kumar B M, Sunil Raj B A and Srinidhi Acharya S attended Two weeks faculty development program on World Class new product design and manufacturing at Oxford college of engineering, Bangalore from 1st-13th Jan 2018.

Dr. R Sivasubramaniyam, Bapugowda C M, Chandrashekar B and Sandeep G R attended One day faculty development program on Total quality Management at Rajarajeswari college of Engineering no 31st January 2018.

Dr. Suresh P M attended the workshop on New Model Curriculum for First year B.E/B.Tech CBCS detailed syllabus (2018-2019) as per outcomes-Based Education (OBE) format including course outcomes(CO) and Bloom's Taxonomy under TEQIP-1.3 for the workshop practice & Engineering Graphics under Mechanical Engineering board held on 09/05/2018 at BNMIT Bangalore organized by Visvesvaraya Technological University, Belagavi.

H.S.Siddesha, Shantharaja M, Ayub Mohammed Ateeb, desha, Shantharaj M, Javad Ali, Mohammed Mujeer and Shahabaz Khureshi P , **"Constrained groove pressing OF Aluminum alloy "** International Conference on Sustainable Engineering & Technology ICONSET-2018 At ACSCE, Bangalore, 19th-20th April 2018.

Dr. R Sivasubramaniyam, Bapugowda C M, Chandrashekar B and Sandeep G R attended One day faculty development program on Total quality Management at Rajarajeswari college of Engineering no 31st January 2018.

Dr. Suresh P M, Chandru B T, Ravishankar, **"Experimental and FE analysis of floor pan of a car without and with incorporating viscoelastic damping"** International Conference on Sustainable Engineering & Technology ICONSET-2018 at ACSCE, Bangalore, 19th-20th April 2018.

Srinidhi Acharya S R and Dr. Suresh P M, **"Static and Dynamic Analysis of Heavy Vehicle Chassis"** "National Conference on Advances in Mechanical Engineering – NAME 2018" held At Jawaharlal Nehru National College of Engineering, Shivamogga. 20th and 21st April 2018.

Dr. Suresh P M, Sagar K G, **"A Review Paper Of The Hardness-toughness Relationship"** International Conference on Sustainable Engineering & Technology ICONSET-2018 at ACSCE, Bangalore, 19th-20th April 2018.

Suresh P M, Sagar K G, "Finite element analysis for material and geometrical nonlinearity in powder compact components" SSRG International Journal of Mechanical Engineering (SSRG-IJME) Vol 5, Issue 2, Feb 2018

Rakesh S., R. Siva Subramaniyam, Devaiah M. V., "Gear Ratio Calculation and Comparison between Sports Utility Vehicles (SUV's) and Race Application" International Conference on Sustainable Engineering & Technology ICONSET-2018 At ACSCE, Bangalore, 19th-20th April 2018.

R. Siva Subramaniyam, Rakesh S., Devaiah M. V., "Determination of Internal Defect and Compare the Analysis Results with Thermal analysis" International Conference on Sustainable Engineering & Technology ICONSET-2018 At ACSCE, Bangalore, 19th-20th April 2018.

RESEARCH PUBLICATIONS

- H. S. Siddesha , Shantharaja M , S. Paul Vizhian " Nanostructure and Mechanical Properties of Severe Plastic Deformed Al 6061 Alloy Processed by Constrained Groove Pressing" International Journal of Scientific & Engineering Research(IJSER), Volume 8, Issue 12, December-2017.pp-1567-1570.
- Suresh P M, Sudha P N, Prathima B A " Electronic sensors for micron resolution dimension measurement" International conference on Electrical, Electronics, Communication, Computer technologies and Optimization Techniques (ICEEECCOT 2017) held at GSSSIETW Mysuru on 15-16th Dec 2017.
- Suresh P M, Sagar K G, Redappa H N, Suresh R, "A review on severe plastic deformation" International Journal of Advances in Scientific Research And Engineering" (IJASRE) ISSN 2454-8006Vol 3, Special Issue 8, Aug 2017.
- Suresh P M, Sagar K G, Redappa H N, Suresh R, "wear behaviour of aluminum alloy reinforced with beryl metal matrix composites using taguchi method" international conference iconamma 2017 at amrita school of engineering, Bengaluru, from august 17 to 19th 2017, which will be published in science direct materials today proceedings 2017.
- Suresh P M, Chandru B T "Numerical and experimental modal analysis of car floor" International Conference ICASE 2017 held at EWIT Bengaluru.
- Suresh P M, Chandru B T, Basant Kumar B, Martin B Y "Numerical and experimental modal analysis of car door". International Conference ICASE 2017 held at EWIT Bengaluru.
- Suresh P M, Chandru B T, Sathya J, Maruthi. B. H "Modal analysis of car hood". International Conference ICASE 2017 held at EWIT Bengaluru.
- Suresh P M, Chandru B T, "Numerical and experimental modal analysis of car roof". International Conference ICASE 2017 held at EWIT Bengaluru.



Research at Department

Research Guides

Dr. M S Murali
Dr. M Eswaramurthy
Dr. Suresh P M
Dr. H S Siddesha
Dr. R Sivasubramaniyam

ME Dept. Faculty Pursuing PhD

Mr. Sunilraj B A
Mr. Kumar B M
Mr. Bapugowda C M
Mr. Srinidhi Acharya S R
Mr. Chandrasekhar B
Ms. Chandrakala T
Mr. Rakesh S



Departmental Toppers

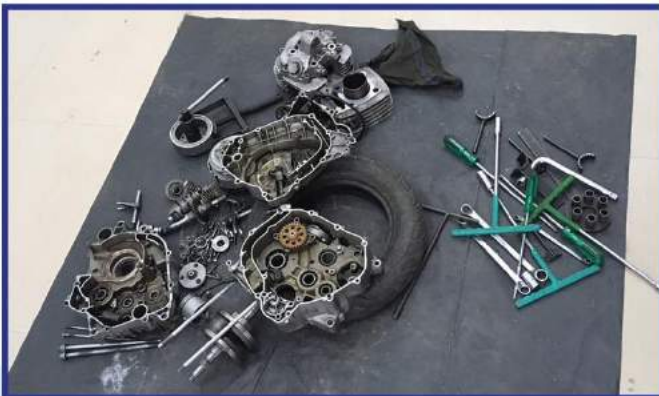
Semester	Name	USN
III	NIKHITHA M A	1AH16ME030
	THRISHEEL BALAGI R	1AH16ME041
	CHATHAN PRABHU	1AH16ME012
V	LOKESH D	1AH15ME008
	LAKSHMISH	1AH15ME021
	AMIT BHATTARAI	1AH15ME004
VII	SRINIVAS V	1AH14ME045
	SHARATH K	1AH14ME043
	MANGALA K	1AH14ME031

LIST OF THE FACULTY MEMBERS

Name of the Faculty	Designation	Qualification
Dr. M S Murali	Principal	B.E, M.Tech, PhD., FIE
Dr. H S Siddesha	Associate Professor & HOD	B.E, M.Tech, PhD., FIE
Dr. Eswaramoorthy R M	Professor	B.E, M.Tech, PhD(NIT-T).,FIE
Dr. P M Suresh	Professor & P G Coordinator	B.E, M.Tech, PhD., FIE
Dr. R Sivasubramanyam	Associate Professor	B.E, M.E, PhD., MIE
Mr. Kumar B M	Assistant Professor	B.E, M.E, (PhD)
Mr. Sandeep G R	Assistant Professor	B.E, M.Tech
Mr. Bapugowda C M	Assistant Professor	B.E, M.Tech, (PhD)
Mr. Sunilraj B A	Assistant Professor	B.E, M.Tech, (PhD)
Mr. Srinidhi Acharya S R	Assistant Professor	B.E, M.Tech, (PhD)
Mr. Chandrashekar B	Assistant Professor	B.E, M.Tech, (PhD)
Mr. Sivashankar	Assistant Professor	B.E, M.Tech
Mr. Rakesh S	Assistant Professor	B.E, M.Tech, (PhD)

PHOTO GALLERY

Two Days Workshop on I.C. Engine Overhauling



Entrepreneurship Awareness Camp



2018 – Batch students with Principal & Mechanical Engineering Dept. staffs



Industrial Visit (Entrepreneurship Awareness Camp)



STUDENTS ACHIEVEMENTS



Orientation workshop on Unnat Bharat Abhiyan at AICTE New Delhi



Project Exhibition & Poster Presentation-2018



Students sharing their journey in ACSCE



HIGHLIGHTS

- 13 Laboratories equipped with “**State of the Art**” facilitates satisfying AICTE norms and VTU curriculum.
- Independent Seminar Hall equipped with LED projector, Audio & Video system.
- CAD/CAE/CAM Software's like Solidedge18, ANSYS 13 and Swan soft.
- SMART Class rooms.
- Research & Development Centre has Specimen holder preparation setup and comp. metallurgical microscope.
- Faculties and HOD are provided with chamber & independent cabins.
- Computer facilities with internet access is provided for both Students and Faculty.
- Dept. has currently five class rooms (provided with all facilities) Laboratory, Class rooms are utilized for tutorial classes.

ACS College of Engineering



GLOBAL KNOWLEDGE INNOVATIVE TECHNOLOGY



BY:

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