



Department of Mechanical Engineering



MESA

Our Leaders



ER. K. SATYANARAYANA **PRESIDENT**



ER. K. HAVISH **VICE-PRESIDENT**



ER. K. RAJA HARIN
VICE-PRESIDENT



DR. EDARA VENKAT PRO-CHANCELLOR



DR. L.S.S.REDDY VICE-CHANCELLOR



DR. RRL KANTAM REGISTRAR



DR.A.JAGADESH COO/DIRECTOR FED





DR.K.RAMAKRISHNA DEAN IQAC



DR.K.L.NARAYANA DEAN R&D



DR.N.B.V.PRASAD DEAN PLACEMENTS



Message from HoD Desk



DR. A. SRINATH

PROFESSOR & HEAD

DEPT. OF MECHANICAL ENGINEERING

I feel delighted and very happy that the student association of our department - MESA, and our faculty have come out with a good work of showcasing the departments achievements, prominent contributions and semester wide conducted events, in form of a magazine entitled MechZine. This will be the mouth piece of the department hereafter and will be communicating our departments events, activities, achievements, student progress, faculty research and many more such hereafter, twice a year, once in December and other in May.



Department at a Glance

Department of Mechanical Engineering was established along with the institution in the academic year 1980-81 and has grown along with the institution tremendously, as on date the department carries the following salient features:

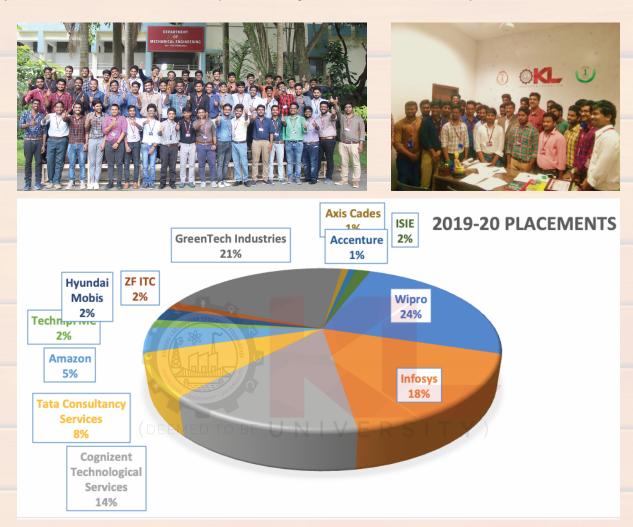
- 121 faculty with 45 Doctorates and well experienced staff.
- 7 State of the Art Laboratories for Research and Development.
- 6 Industry established Centres of Excellence.
- Industry connect curriculum, with greater emphasis on practical skills and hands on experience.
- 10 sets of skilling in coding tools, software packages and industry required modules, designed and delivered by industry directly.
- APSSDC established center in 3D experience.
- 650 publications in internationally reputed journals by faculty and students.
- 100% placements for all eligible and interested students in both Software as well as Core Companies, since 2005 to date.
- 18 Start-ups from our students out of which 8 have become full-fledged companies and the rest in incubation state.
- National ranks in GATE annually by nearly 40 to 50 students. Annually over 120+ students obtain higher education in Germany/Canada/UK and Japan, through GRE/TOEFL/IELTS scores.
- Embedding research and innovation skills in students through their involvement in faculty research, leading to publications in reputed and indexed journals.
- 46 Patents filed, 19 Patents Published and 5 Patents Granted by IPR-Govt. of India, by Faculty and students of the department.
- Annual Championships by students in SAE/ ISIE/ ASME events like Go-Kart, HPVC, HVC, COC, BAJA, SUPRA etc.
- SAE, ISIE, ISHRAE Professional Society students and faculty clubs.
- Technical and Non-Technical Hobby clubs for students and faculty. Central Fab Lab with cutting edge fabrication and product design facilities.



Career Options

Placement

The Dept. of Mechanical Engineering focusses on job placement as one of the prime criteria for the growth and development of students. Having said so, the year 2019-20 has seen an impeccable record for placing the desired students into reputed firms and companies thereby achieving a 100% percentile in job placement.



The Department of Mechanical Engineering pompously speaks about the students who have attained a job placement in multiple companies with an overwhelming response to their hard work and efforts. It brings immense pleasure to the higher heads of the department while this sets an example for students of the next generation. The major companies include; Amazon, Tata Consultancy Services, Cognizant, Wipro, Axiscades, Infosys and ZF India Technology Center.



Students placed in more than 3 companies



- D. SAI PRABANJAN
 - · 160070182
 - TCS, INFOSYS, CTS, ISIE





SHUBHAM MOHINDRU

- · 160070392
- AMAZON, TCS, WIPRO, INFOSYS







R.JUGAL KISHOR

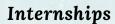
- · 160070398
- AMAZON, TCS, INFOSYS, CTS





- · 160070182
- WIPRO, INFOSYS, CTS, ZF ITC





During the academic year 2019-20, students were offered with an internship program in which they are given an opportunity to work in industries and thereby adding on industry experience for placements as well as entrepreneurship opportunities.





other companies: DRDO, Kushalava Motors, Autoline Industries limited, Madhu Babu Industries Pvt. Ltd., Robo Coupler Techno. Solutions, T 3D Labs Pvt. Ltd.



Research

The Department holds sponsored research projects from DST, UGC, AICTE worth Rs.4.5 Crores. The department performs consultancy activities on regular basis with average annual revenue of 18 Lakhs. The faculty and students of the department have filed 33 patents, of which 13 are published and 4 are Granted, by IPR Govt. of India. The department comprises of 750 publications in internationally reputed journals by faculty and students in SCOPUS and SCI Indexed Journals.

An innovative thought – Research Article Our final year students have worked on "Optimisation of Insertions and Retractions in the Minimally Invasive Cardiac and Vascular Atherectomy Surgeries as a Pre-requirement to Percutaneous Coronary Intervention". Cardiac arrests can be prevented through timely diagnosis and intervention, where atherectomy procedure comes as a primary step before the process of PCI (percutaneous coronary intervention), popularly known as stenting. The proposed model predominantly helps people with age above 60 years and even the acute diabetic patients who cannot sustain anaesthesia for longer durations. It is also extremely useful for the doctors as it reduces the preparation and operation time by approximately 50%. The technology is aimed to significantly reduce surgery time and eliminate surgical complications.

Ch. Ram Gopal, Sriprad Desiraju and D. Sai Prabhanjan- Students, IV B. Tech Mechanical Engg.

Dr. A. Srinath- Project Guide, Head of the Dept. Mechanical Engg.



A Concise of Our Best



Dr. B. Nageswara Rao hold a Ph.D. in Mathematics from IIT Bombay, India. He is currently a professor in the Department of Mechanical Engineering at KL University, India. He has been part of ISRO/ VSSC Trivandrum for 33 years as a Scientist/Engineer. Dr. B. Nageswara Rao has received several honors which include Holder of the NCC C Certificate (Army Wing), Awarded IIT Bombay Merit Scholarship during post-graduation studies, Awarded Junior Research Fellowship from the Indian Government Department of Atomic Energy (DAE) and Senior Research Fellowship from the Council of Scientific & Industrial Research (CSIR) to carryout research for Ph.D. at IIT Bombay. He has published 284 articles in journals as well as 43 articles in conferences contributed as author/co-author. Dr. B. Nageswara Rao has successfully supervised 12 Ph.D., 16 M. Tech and 8 B. Tech students. He serves as a reviewer in a number of reputed journals. He is also working as Research Guide at University of Kerala, Andhra University and Bharathiar University, Coimbatore. He is member of Aeronautical Society of India, Indian Society of Theoretical and Applied Mechanics, Indian Society for Non-Destructive Testing, and member of Live DNA: A forum of worldwide highly influential Scientists & Scholars and Recognized in Marquis Who's. He also delivered lectures & guided project thesis of the participants of ISRO Induction Training Programmers (IITP), and Key-Note addresses in National Conferences.



Industry Connect

Industry Connect is an exclusive event which brings together leaders from the Industry for visionary keynotes and informative discussions, facilitated networking, face-to-face and meeting opportunities. Industry Connect Programme helps participants in a group to gain the technical knowledge and soft skill knowledge used in the engineering world. This programme specifically for students to secure a job opportunity in reputed firms as well as for internship opportunities. The programme gives an opportunity to meet different level of people from Industry who will share their experiences and able to make connections with them. Department of Mechanical Engineering holds the privilege to connect with reputed firms in the country.

- · Green Tech Industries
- · Jindal Group
- Bharat Forge
- · Grupo Antolin
- · Ashok Leyland
- TATA Projects
- NCC Limited
- Vijaya Nirmana Construction
- L & W Construction Private Limited
- VOLVO Construction Equipment











ASHOK LEYLAND



Director HR- Bharath Forge

HR- Ashok Layland

Delegate from Grupo Antolin



Industrial Visits

As a part of the curriculum/academic program and an exposure towards the industry and corporate world, the students of ME visit certain industries on a half yearly basis. Dept. of ME is known for its practical approach towards the learning and development of students. Industrial visit focuses on preparing the students to learn about the day-to-day working of a particular industry and understand its operational issues. In the A.Y. 2019-20, the second-year students have visited industry estates and companies like G S Alloys, Vijayawada Thermal Power Station, Krishna Milk Factory and Jocil Pvt. Ltd







- 1. Kumar Pumps and Motors (Tenali, AP)
- 2. G.S Alloys Pvt. Ltd.
- 3. Thermal Power Plant (Vijayawada)



Student Support System

Student clubs are run by students and supported by the department. They play an important role in the student life which in turn foster the skill and experience that a student needs. Department activities are organised by the student clubs which help them sharpen their leadership skills and enable them to explore and pursue new interests or old passions by becoming a member.

Automobile Club (KL-AC)



The KL Automobile club is a congregation of six vehicle design and development teams which individually comprise a group of enthusiastic students who own a great passion for automobiles and the real engineering techniques. These teams design and fabricate their own vehicles and take part in several competitions organised by SAE, ASME, ISIE, ISNEE, i2i etc., annually.

E-Vehicle Club: E-bike Challenge is an eco-friendly venture based upon Engineering design and manufacturing of Electric bike completely by the students.

Formula Vehicle Club: The objective of the club is to design and fabricate a hybrid vehicle or an electric vehicle under event design conditions for the students to demonstrate and prove their creativity and their engineering.

ASME Club: ASME's international Human Powered Vehicle Challenge (HPVC) provides an opportunity for students to demonstrate the application of sound engineering design principles in the development of sustainable and practical transportation alternatives.

Go Kart Club: The objective of this event is to promote Motorsports as a profession in India, Passion, Creativity, Innovation and practical approach based technical skill in engineering/diploma students.

Off-Road Vehicle Club: An all-terrain vehicle (ATV), also known as a quad, three-wheeler, four-track, four-wheeler, or quadricycle is a student level off road quad bike design challenge.

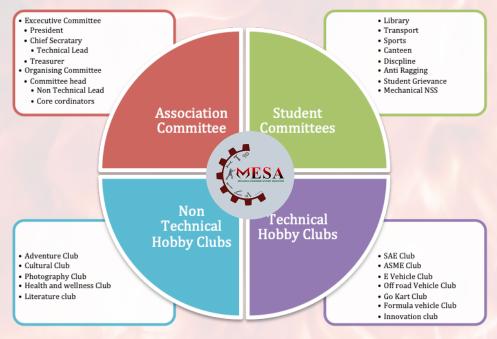






Student Association Body

MESA: The Mechanical Engineering Student Association (MESA) is a body which actively encourages students to organise several Technical and Non-Technical events in the department which in turn supports the stewardship of everyone at the University. MESA is a platform for students to connect across the streams of major engineering areas, gain exposure, develop social contacts and a spirit of fellow-feeling among the students which enriches the student life in the department.



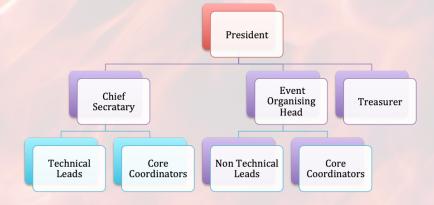
FACUTLY SUPPORT







STUDENT ASSOCIATION HIERARCHY





President
•Shubham
Mohindru
•160070392



Chief Secretary •B. ANANTH SREE CHARAN •160030142



Treasurer
• G. SAI
PRUDHVI
•160070090



Organising Head •M. DINESH REDDY •160070227



TEAM MESA 2019



DEPARTMENT HOBBY CLUBS: The hobby club was established an executive club for students with a passionate hobby or special interest. The object of the club is to encourage the collection of literary, artistic and scientific works; to aid in the development of the desired aspects. The club provides an opportunity for students to showcase special interest in extra-curricular activities and sporting events which represents a large part of active participating members of the student community of the department.



DEPARTMENT NSS CELL: The department of Mechanical Engineering organizes several NSS activities which actively involves Faculty, Students and Non-Teaching staff. NSS volunteers generally work in villages, and voluntary agencies to complete a stipulated time of regular activities during an academic year. The volunteers interact and learn from people in villages about livelihood, despite a scarcity of resources. The activities carried out by the department.

- Sapling Plantation
- Blood Donation Camp
- Independence Day
- Village Survey
- Orphanage social service.











Student Achivements

Mr. V. Uma Manikanta (160070359) won a cash prize of ₹ 15,000/- only from Centre of Invention, Incubation, and Entrepreneurship on Innovation Day for his Start-up Idea of "Dilatator Set Up for Men Urethral Stricture." I express my deep gratitude to my department for the support and valuable timely advice in the mode of guidance. This Idea relates to the fact that Men face urethral stricture problem i.e., blockage of urine stricture which causes unbearable pain and to overcome it, this equipment is used.



Ms. Cyber

Aditya Hemanth Kumar and Elisha; students of II-year, M. Tech, Robotics & Mechatronics working as interns at RoboCoupler, Visakhapatnam have designed a RoboCop for the police department of Vizag City which has been launched by the Mr. R.K Meena, Commissioner of Police, Visakhapatnam.Ms Cybira, a cyber security interactive robotic agent, was designed by RoboCoupler. With the induction of Cybira, Andhra Pradesh becomes the third state in the country after Kerala and Telangana to launch a Robot cop. Cybira, which has been developed at a cost of Rs 8.7 lakh, functions using artificial intelligence and mechatronics.







Departmental Day

On 20th of September, Mechanical Engineering Department witnessed its biggest event of the season, Department Day 2019. The event was a beautiful amalgamation of Engineers' Day and Teachers' Day followed by "Inauguration of MESA Hobby Clubs" and the "Inauguration of Automobile Club".

Mr. C. Radhakrishnan

DGM, Ashok Leyland, Chennai and Mr. A. Anand- Divisional Manager, Ashok Leyland, Chennaiwere overwhelmed by being part of the event and motivated the students for their future. These gentlemen presented the work culture and work methods carried out in Ashok Leyland to the audience.





Workshops

Departmetal Wrokshops: Mechanical Engineering Department successfully conducted a mammoth of 7 major workshops for all the students on the occasion of SAMYAK 2019. The response from the students was tremendous and the workshops ultimately proved to be successful and of immense importance for the overall skill development to students, in total of 450 students in the department participated in the workshop and events. The workshops included:

- 1. Formula 1 Vehicle Design
- 2. Vehicle Dynamics and Design
- 3. Quadcopter UAV
- 4. Solar Vehicle Design & Development
- 5. Automobile Prototyping
- 6. Mobile Controlled Robotics
- 7. Hyper mesh





Student Testimonies



S. N. Murthy, 160070331, presently studying B. Tech Final Year, ME, placed in TCS and Wipro. I would like to extend my thanks to the Placement Team and Faculty for guiding me towards success. Timely knowledge of the placement team, and teaching methods of the faculty have been extensively fruitful. Also, the continuous training provided by the respected HoD sir helped to develop my communication skills.

Shubham Mohindru, 160070392, presently studying B.Tech Final Year, ME, placed in TCS, Wipro, Infosys, and Amazon. Constant support from the Placement Team, Active-Learning methods adopted by Faculty followed by the futuristic approach of respected HoD sir paved the way to my success. Life at KL has been a beautiful journey to cherish all my life.





S. Darsi Sai Prabhanjan, 160070070, presently studying B.Tech Final Year, ME, placed in ISIE, Infosys, and CTS. I would like to thank HoD sir, and the entire placement team for their continuous advice and trainings. Coding daily and practicing in Examly portal provided by the University has been my strategy towards placements.

Ruvva Jugal Kishore, 160070398, presently studying B.Tech Final Year, ME, placed in TCS, Infosys, and CTS. I would like to thank HoD sir, the placement team and my project guide for guiding me through a great project in the final year. My strategy has always been focusing on the present need of the industry and developing my skills accordingly.



Coming soon.....

Yantrik...!! A national level techno-management fest conducted by the Dept. of Mechanical Engineering. Yantrik is derived from the word "YANTHR"; meaning machine in sanskrit. Yantrik aims to nurture the students to excel in learning and practice advanced technologies in the field of mechanical engineering through various workshops and technical events. The event is hosted for 2 days comprising of workshops followed by a cultural night. Yantrik not only enhances the technical knowledge but also helps the participants to enhance their creative side as well. During this event people from all over the country can register and participate to improve their skills and learn about present technological trends.

