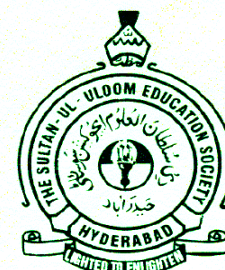


CLARION

Newsletter

Department of Mechanical & Production Engineering
Muffakham Jah College of Engineering & Technology, Hyderabad.



ANNUAL ISSUE OF THE YEAR 2018-19

EDITORIAL BOARD:

- Dr. Mohd. Viqar Mohiuddin,
Professor & Head, M.E.D.
- Dr. Mrs. Ishrath Meera Mirzana ,
Professor & Associate Head,
M.E.D.
- Dr. K. Hema Latha,
Assistant Professor, M.E.D.
- Mr. Syed Adil,
Assistant Professor, M.E.D.

QUOTES:

- “If you want to shine like a Sun, First Burn like a Sun.” —
[.APJ.Abdul Kalam.](#)
- “Thinking is the hardest work there is, which is probably the reason, so few engage in it ” – [Henry Ford.](#)
- “ Everything is easy when you are busy, But nothing is Easy when you are Lazy”–[Swamy Vivekananda](#)

VISION AND MISSION THE DEPARTMENT

Vision: To produce high caliber, competent, industry oriented Mechanical Engineers

Mission: To impart quality education by providing state of art technical facilities and enhance the professional abilities to meet the demands of the ever-changing manufacturing industry.



TSE-2019 Conference held on 22nd to 24th March, 2019

. A Conference on Technologies for Sustainable Ecosystem (TSE-19) was conducted from 22nd to 24th March, 2019. Dr. Showkath Ali Mirza, Director, EWB-India was the chief guest for the conference. Selected papers from the conference are published in the UGC recognized journal IJERT after the plagiarism check has been carried out. The conference coordinators were Dr. Ishrat Meera Mirzana and Mrs. Lakshmi Kumari, Faculty Advisors for Engineers without Borders (EWB)-MJCET student chapter.

SAE (SOCIETY OF AUTOMOTIVE ENGINEERS): MJCET Chapter

SAE – “Society of Automotive Engineers” is one of the largest student organizations in automotive Industry. **SAE INDIA** is an affiliate society of **SAE International** registered in India as an Indian nonprofit engineering and scientific society dedicated to the advancement of mobility industry in India. **SAE INDIA MJCET chapter** was started in the year 2005. Since its inception the students of the club are consistently participating in all the events organized by the SAE INDIA.



Syed Murtuza Quadri, Vice chief Coordinator demonstrating the functionality of Maruti 800 Internal Combustion engine

SAE-MJCET student chapter has organized an ENGINE ASSEMBLY workshop for the students of Mechanical and Production engineering on 2nd and 3rd February, 2019 in the SAE Student Activity Centre where Syed Murtuza Quadri, Vice chief Coordinator of SAE MJCET chapter demonstrated the functioning of each component of Maruti 800 internal combustion engine by disassembling all the parts of the engine and assembling them back again in correct sequence for the students to understand the real world applications components practically.

RESEARCH AND DEVELOPMENT -MJCET

Pneumatic Quadruped robot is MJCET R & D sanctioned project of 2017-18. The designed Quadruped robot consists of rectangular chassis, base block, thigh link, knee link and clevis joints and stopper. Each leg consists of knee and thigh links that are actuated by pneumatic actuators. The assembly set up consists of link with actutators, pneumatic storage tank. For the foot of the quadruped robot, spherical ball structure is utilized that helps them to mobilize on any type of terrain.

It has won second prize in the Anveshana (A Science and Engineering Fair) – A competition conducted by AGASTYA International Foundation and won a cash prize of Rs.25,000/- conducted on 30th January, 2018. The Team was among the 30 teams selected at the south zonal competition among the 1100+ teams conducted at

Bangalore DRDO and it has been selected as the top team in the south zone. The team has participated at Pune, DRDO for the National level competition held on 24th and 25th May, 2018. The project guides are Dr. Ishrat Meera Mirzana, Professor, Mechanical Engineering Department and Dr. Kaleem Fatima, Professor, Electronics and communication Engineering Department, MJCET.

RESEARCH PROJECTS: In-house R & D projects:

Six projects of MED were approved in the year 2018-2019

- Amount of Rs. 1,19,000/- is granted for the project titled “Six Legged ROV”. The project is under the guidance of Dr. Ishrat Meera Mirzana, Prof., MED.
- Amount of Rs. 88,000/- is granted for the project titled “Wanderway- An improved Segway”. The project is under the guidance of Mrs. O. Hemalatha, Asst. Prof., MED and Mrs. B. Sucharitha, Asst. Prof., ECED.
- Amount of Rs. 50,000/- is granted for the project titled “Synthesis and Characterization of Nano Magnetorheological fluids for engineering applications”. The project is under the guidance of Mrs. G. Sailaja, Asst. Prof., MED and Dr. M.G.V. Satyanarayana, Asst. Prof, Chemistry.
- Amount of Rs. 97,000/- is granted for the project titled “Laser Engraver”. The project is under the guidance of Dr. Mohd. Viqar Mohiuddin (Prof., MED) and Ms. Maliha Naaz (Asst. Prof., ECED).
- Amount of Rs. 85,491/- is granted for the project titled “Flexible Manufacturing System”. The project is under the guidance of Mr. Hakeemuddin Ahmed, Asso. Prof., MED.
- Amount of Rs. 75,000 /- is granted for the project titled “3D Map Generating Autonomous Bot”. The project is under the guidance of Dr. Ishrat Meera Mirzana, Prof., MED and Mrs. Munavvara Tahaseen, Asst. Prof., ITD.



Display of the Six-Legged ROV -ADSOPHOS



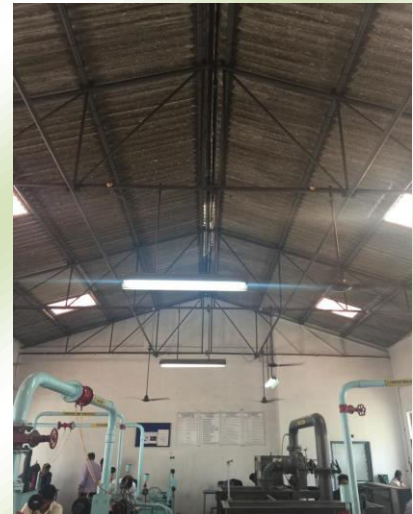
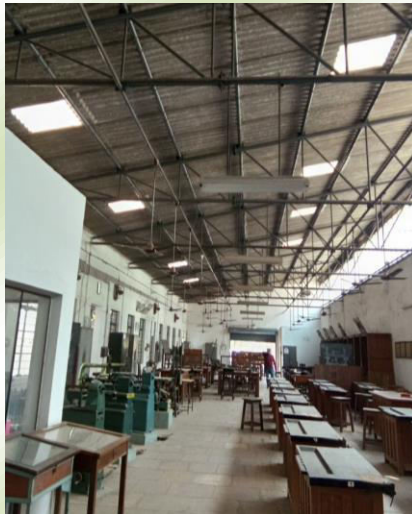
Working of Wanderway- ADSOPHOS



Display of projects of Mechanical Engineering Department during ADSOPHOS 2019 in Ghulam Ahmed Hall of MJCET.

TURBO VENTILATORS FOR LABS

- Fourteen turbo ventilators were purchased for the labs of Mechanical Engineering Department. They are mounted in Heat and Power Lab, Hydraulics Lab and First year Workshop costing Rs. 1,01,480/-. Also in foundry lab transparent sheets were mounted for improving lightening.



Turbo Ventilators in MED Workshops

DYNAMICS OF MACHINES LAB

- **Dynamics of Machines lab:** Dynamics of Machines Lab was established in Metallurgy workshop of Mechanical Engineering Department. Amount of Rs 48,470/- is spent for the purchase of lab equipment and Rs. 35,000/- towards the new furniture.



Dynamics of Machines Lab

PAPERS PUBLISHED / PRESENTED BY FACULTY MEMBERS:

- Mohd Hasham Ali, S. Irfan Sadaq & Dr. Syed Nawazish Mehdi, published paper on “Analysis of Two Bladed Vertical Axis Wind Turbine Using CFD”, in JETIR, Volume 6, Issue 5, May 2019, ISSN-2349-5162.
- V Anand kumar & N.Govind, Published paper on “Effect of post-weld heat treatment on dissimilar friction stir welded AA6082 AND A319 aluminium alloys” in International Journal of Mechanical and Production

Engineering Research and Development, ISSN(P):2249-6890;ISSN(E):2249-8001 Vol.9, Issue 4, Aug 2019, 1335-1342.

- V Anand kumar & N.Govind, Published paper on “Effect of tool pin profile and friction stir welding speed on tensile & hardness properties of friction stir welded joints of AA6082 & A319 Aluminium alloy” in International Journal of Innovative Technology and Exploring Engineering, ISSN:2278-3075, Volume-8, Issue-12, October 2019.
- V Anand kumar & N.Govind, Published paper on “Effect of welding parameters on mechanical and microstructural properties of dissimilar AA6082–A319 joints produced by friction stir welding” in International Journal of Mechanical Engineering and Technology, ISSN (P):0976-6340; ISSN (O):0976-6359, Vol 10, Issue-12, Dec 2019, 284-293.

ACHIEVEMENTS BY FACULTY MEMBERS:

- Dr. Syed Nawazish Mehdi, Professor, MED is taking the voluntary retirement from his services to the department and he is relieved with effect from 30-04-2019.
- Dr. A. S. Reddy, Professor, MED has resigned and is relieved from the services of the department with effect from 31-12-2018.
- Mrs. Ishrat Meera Mirzana, Associate Professor, MED is promoted as Professor by Sultan-ul-Uloom Educational Society with effect from 01-05-2018.
- Mr. Mohammed Irfan, Assistant Professor, M.E.D. left the department and is terminated from his services in the year 2018.
- Mr. Hakeemuddin Ahmed, Associate Professor, MED was awarded the Ph.D. degree from J.N.T.U., Hyderabad in the year 2018.
- Mrs. G. Sailaja, Assistant Professor, MED has submitted her Ph.D. thesis to JNTU Hyderabad in the year 2018.
- Mrs. O. Hema Latha, Assistant Professor, MED has submitted her Ph.D. thesis to Osmania University, Hyderabad in the year 2018.
- Mr. Minhajuddin Saif, Assistant Professor, MED has submitted her Ph.D. thesis to
- Mr. G. Prasanna Kumar, Assistant Professor, MED was awarded the Ph.D. degree from JNTU Ananthapur in the year 2018.
- Mr. G. Prasanna Kumar, Assistant Professor, MED is promoted to Associate Professor by Sultan-ul-Uloom Educational Society on 01-11-2018.
- Mr. D. Srinivas Rao, Associate Professor, MED was awarded the Ph.D. degree from Osmania University, Hyderabad in April 2019.

EWB (Engineers Without Borders):

EWB-MJCET Chapter was started in the year 2005 as the first student chapter of EWB-India and has been the most active student chapter in the country. It currently has 150 members.

EWB-INDIA MISSION: The mission is driven by an urge and concern for accelerating sustainable rural development, assisting in capacity building in backward rural and urban communities of India, protecting the country's natural resource base and working across national boundaries for social and economic justice and responsible use of technology.

EVENTS CONDUCTED BY EWB-MJCET

- Airtel Marathon was organized on August 2018, around 250 volunteers participated in conducting the event.
- Ethical Hacking conducted in coordination with Innovate Invent Edu Tech Pvt Ltd on October 12th and 13th, 2018,
- EWB MJCET Chapter won the best presentation award in All India EWB Chapters meet conducted in the month of December, 2018.
- A seminar on “Engineers - As agents of Social Change” by Dr. Raj Rajaram, USA, was organized on 28th January, 2018
- TSE conference was conducted from 22nd-24th March, 2019. Dr. Showkath Ali Mirza, EWB-India Director was the chief guest for the event.

STUDENT PLACEMENT INFORMATION

S. No.	Organization	Mechanical	Production	M.E. (CAD/CAM)	CTC / Remuneration offered
1	Infosys	06	01	01	Rs. 3.6 Lacs P.A.
2	Genpact	02	--	--	Rs. 1.8 to 2.2 Lacs P.A.
3	Amazon	05	--	--	2.2 Lacs P.A. + benefits
Total Jobs Offered		13	01	01	TOTAL = 15 Nos.

MERIT LIST - UNIVERSITY RANKS

➤ List of **University Ranks** obtained by the students of Mechanical Engineering for the batch 2015-19

S.No	Roll Number	Name of the Student	Marks Secured	OU-Rank
1	1604-15-736-015	Mohd Ilyas uddin	4847	I
2	1604-15-736-001	Syed Shahbaz Peeran Quadri	4838	II
3	1604-15-736-025	Md Shoeb Khan	4718	IV
4	1604-15-736-002	Mohammed Rehanuddin	4711	V
5	1604-15-736-005	Syed Muzammil Shah	4704	VI
6	1604-15-736-067	Mohammed Taquiuddin	4667	VIII
7	1604-15-736-089	Mohammed Nadeem	4656	IX