

Newsletter

Department of Mechanical Engineering

Muffakham Jah College of Engineering & Technology, Hyderabad.



ANNUAL ISSUE OF THE YEAR 2017-18

EDITORIAL BOARD:

- ➤ Dr. Mohd. Viquar Mohiuddin, Professor & Head, M.E.D.
- ➤ Dr. Mrs. Ishrat 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.

OUOTES:

- You must be the change you wish to see in the world" Mahatma Gandhi.
- ➤ "Education is the most powerful weapon, which you can use to change the world" Dr. APJ Abdul Kalam.
- "Science is organized knowledge.
 Wisdom is organized life."
 Immanuel Kant.

VISION AND MISSION OF 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.

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SAE SUPRA 2017

Mechanical & Production Engineering students of Muffakham Jah College of Engineering and Technology, Banjarahills, Hyderabad, have designed and fabricated a Formula Racing Vehicle and participated in the National Level Engineering Student Formula Car Racing Competition SUPRA SAE INDIA held at *Buddh International Circuit (BIC)* – Country's first International Formula car racing track, scheduled from 26th June to 1st July 2017 at Greater Noida. The vehicle was very high on performance and moved at a top speed of 110 kmph with an unmatched acceleration. Vehicle gets its power from KTM 390 cc, 44 BHP engine. The performance of the vehicle was incomparable due to its light weight, aerodynamic body, very efficient braking and best in class suspension.



Supra Team MJCET at Buddh International Circuit, Noida, New Delhi The SUPRA TEAM MJCET was headed by Mr. Safwan Shurieh as captain and Mr. Jibbin Mathews as vice-captain. Mr. Omer Javeed and Mr. Safwan Shurieh were the drivers of the vehicle at BCI. The Project was under the guidance of Faculty Advisor Dr. Mohammed Viquar Mohiuddin, Associate Professor, MED and was well supported by Dr. N. Seetharamaiah, Head, M.E.D. and Dr. Basheer Ahmed, Director, M.J.C.E.T. and the project was sponsored by The Sultan-ul-Uloom Educational Society.

SAE (SOCIETY OF AUTOMOTIVE ENGINEERS):

About SAE:

SAE stands for Society of Automotive Engineers, is a one-stop resource for standards development, events, technical information and expertise used in designing, building, maintaining, and operating self-propelled vehicles for use on land or sea, in air or space. SAE International has a diverse membership of engineers, business executives, educators, and students from across the globe, who shares information and exchange ideas for advancing the engineering of mobility systems.

Objectives of SAE:

SAE demonstrates commitment to society through local, national, and international public awareness programs that promote vehicle safety and maintenance and energy resource conservation. The SAE Foundation is deeply involved in the engineering-related education of children, teachers, college students, and faculty by conducting seminars, webinars, symposia, conferences and competitions like Baja SAE Series, SAE Aero Design, Clean Snowmobile, Formula SAE Series & Super mileage. For more information, refer to Baja Website www.bajasaeindia.org.

SAE INDIA 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.
- Centre for Vehicle Design and Fabrication was established to provide platform and facilities to the students having interest in automotive sector. Centre provides facilities to the students taking projects in design and fabrication of vehicles or the student teams participating in inter state or National level competitions of vehicle building. The centre was inaugurated by Janab Khan Mohammed Lateef Khan Sahab, Hon. Chairman, Janab Waliullah Saheb, Vice Chairman, Janab Zafar Javeed Saheb, Hon. Secretary, and board members of S.U.E.S. on 21st September, 2018.

All SAE-MJCET club activities are also carried out from this centre. Till date our students fabricated All terrain vehicles, Formula racing vehicle, Go-carting vehicles, electric vehicles, solar vehicles and All terrain bike and participated in many national level competitions or events like SAE Baja, SAE Supra, Quad Torq, Go-karting championships, etc. Dr. Mohd. Viquar Mohiuddin, Professor and Head, MED and Dr. D. Srinivas Rao, Professor, MED look over all the activities associated with the centre. Two National Events: (1) SAE BAJA and (2) SAE SUPRA

Apart from SAE Supra – 2017, the other events which took place in the academic year 2017-18 are Go-Karting NKRC-2017 and Mega ATV Championship-18 under the SAE-MJCET Students Chapter.

GO-KARTING (NKRC-2017)

Team FALCON RACERS from Mechanical Engineering Department of Muffakham Jah college of Engineering and Technology had participated in NATIONAL KART RACING CHAMPIONSHIP – 2017, India's Biggest Karting Festival held from 29th September to 3rd October, 2017 at R.P.M. circuit, Bhopal, India.

The team Falcon Racers has designed and fabricated a kart following the strict guidelines of the N.K.R.C. rulebook to compete with 150 teams across the country. The kart moved at a top speed of 90kmph with unmatched acceleration of 11 m/sec². It gets its power from Bajaj Discover 125 ST, 12.8 BHP engine. Team Falcon Racers was dynamically lead by the captain Mohd. Parvez and assisted by S. M. Murtuza Husain and the vehicle was driven by Mohd. Feroz. The Project was under the guidance of Dr. Mohd. Viquar Mohiuddin, Faculty Advisor & Associate Head, M.E.D. and the project was sponsored by The Sultan-ul-Uloom Educational Society.





Go-Kart (NKRC-2017)

MegaATV championship 2018

Team MJCET of Mechanical & Production Engineering Department have designed and fabricated the *All-Terrain Vehicle* and competed in the National Racing Championship **Mega ATV-2018**, held from 24th to 26th February, 2018 at Nashik, Maharashtra, India.

The competition was among 110 short-listed teams from nationwide engineering colleges and universities including NITs & IITs, to prove their talent and engineering skills. The vehicle gets its power from Briggs & Stratton 305 c.c., 10 H.P. engine, having torque of 800 N-m. Total weight of the vehicle is 185 Kg and the vehicle moves at a top speed of 58 KMPH.

After clearing the rigorous *Technical Inspection* which includes documents check, tools & spares check, safety check, brake test, tilt test, go-nogo test and egression test, the team and the vehicle is tested in *Dynamic Events like Drag Race, Solo-Dirt Race, Armageddon Race, and Day-Night blackout Endurance Race.*





SAE BAJA - All Terrain Vehicle 2018

Team MJCET cleared the Technical Inspection on First day in First attempt mentioning minor modifications. Out of 135 registered teams, 110 teams shortlisted for the event, 86 teams cleared Technical Inspection. In Final Endurance race Team MJCET stands First in Telangana State and 27th overall India.

IN-HOUSE R&D PROJECTS

The following projects guided by the Faculty of Mechanical Engineering and other departments, got approval for funding in the year 2017-18

- Pneumatic Quadruped Robot. The project is under the guidance of *Dr. Ishrat Meera Mirzana*, Associate Professor, MED and Dr. Kaleem Fatima, Professor, ECE Department.

 Sanctioned Amount: Rs.79,966/-
- **IoT based Smart 3D Printer**. The project is under the guidance of Dr. Arifuddin Sohel, Head & Prof., ECED, Mrs. Aijaz Fatima, Asso. Prof., EED and *Dr. Viquar Mohiuddin, Associate Professor, MED*. Sanctioned Amount: **Rs.32,380**/-
- Humanoid Robot- Phase 2. The project is under the guidance of Dr. Arifuddin Sohel, Head & Professor, ECED, Mr. J. K. Nag, Associate Professor, ECED and Mr. Hakeemuddin Ahmed, Associate Professor, MED.

Sanctioned Amount: Rs.75,828/-

CONFERENCES, GUEST LECTURES ORGANIZED BY THE DEPARTMENT

Guest Lecture organized by the Department

1. The Mechanical Engineering Department has organized a guest lecture on "State Space Approach" on 31st March, 2018 in Block 4, Seminar Hall, MJCET. Dr. J.V. Subramaniam, Retd. Professor, MED, Osmania University has enlightened the participants on State Space Techniques. Mr. Hakeemuddin Ahmed & Dr. Mohd. Viquar Mohiuddin, Associate Professors, MED has coordinated the guest lecture under the guidance of Dr. N. Seetharamaiah, Head, MED. The lecture was organized especially for the third year Mechanical & Production Engineering students and the Faculty members of Mechanical Engineering Department.





Guest Lecture by Dr. J.V. Subramaniam, Retd. Professor, MED, Osmania University.

2. Guest Lecture on "Manufacturing and Supply chain Management: A global perspective" By Mr. Mohammed Iqbal (Alumni MJCET) on 22-4-2017 @ 11:30 am in seminar hall mjcet for 3rd & 4th year Mech & Prodn Engg Students.

Conference Organized by the Department

A Conference on *Technologies for Sustainable Ecosystem* (TSE-18) was conducted on 10th and 11th February, 2018. Fourteen papers have been selected and are being published in the UGC recognized journal IJCRT 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.

NEW LAB EQUIPMENTS AND ACCESSORIES

➤ Air Conditioning Test Rig is purchased and Installed in Heat and Power Lab of Mechanical Engineering Department costing total of Rs. 2,07,000/-.



Air Conditioning Test Rig

> Turbo Ventilators: Sixteen turbo ventilators are purchased for the labs of Mechanical Engineering Department. Eight are mounted in Heat and Power Lab and other Eight are mounted in the First year Workshop costing Rs. 1,13,504/-.

➤ Upgradation of PG CAD/CAM Lab: PG CAD/CAM lab is upgraded with LAN network, UPS installation, 14 work stations and servicing of CNC machines with MTAB Chennai.





Turbo Ventilators in MED Workshops

STUDENT ACTIVITY CENTRE

Establishment of *Student Activity Centre* and shifting *Metallurgy Lab* in front of the Models lab of Mechanical Engineering Department. This arrangement is done to provide space for SAE vehicles fabrication, so that Metallurgy Lab functionality will not get affected due to students fabrication activities and also the Metallurgy Lab equipments get safe guarded.





Newly established Student Activity Centre





Metallurgy Lab

INDUSTRIAL VISITS

- ➤ Students of B.E. 3/4 *Mechanical-A* and *Production* Engineering have visited Srisailam Power Plant on 8th March 2017.
- > Students of B.E. 3/4 *Mechanical-B* section have visited Srisailam Power Plant on 9th March 2017.
- > Students SAE mjcet club chapter has organized an industrial visit to Hindustan Machine Tools (HMT) Balanagar, Hyderabad for 3rd year mechanical engineering students on 27th September 2017.



Industrial visit to Srisailam Power Plant



Industrial visit to HMT

FACULTY ACHIEVEMENTS

- ➤ Dr. Syed Ferhathullah Hussainy, Dean Administration is ratified as a Professor in Mechanical Engineering Department on the recommendations of the Osmania University Regular Staff Selection Committee in the meeting held on 22-03-2018.
- ➤ Dr. Mohammed Sadak Ali Khan, Professor, MED is ratified by Osmania University Regular Staff Selection Committee as a Professor in Mechanical Engineering Department in the meeting held on 22-03-2018.

➤ Dr. Mohammed Viquar Mohiuddin, Associate Head, MED is ratified as a Professor in Mechanical Engineering Department based on the recommendations of the Osmania University Regular Staff Selection Committee in the meeting held on 22-03-2018.

- Mrs. Ishrat Meera Mirzana, Associate Professor, MED was awarded the Ph.D. degree from J.N.T.U., Hyderabad in the year 2017.
- Mr. Hakeemuddin Ahmed, Associate Professor, MED has submitted his Ph.D. thesis to JNTU Hyderabad in the year 2017.
- ➤ Mr. G. Prasanna Kumar, Assistant Professor, MED has submitted his Ph.D. thesis to JNTU Ananthapur in the year 2017.

PAPERS PUBLISHED / PRESENTED BY FACULTY MEMBERS

S. No.	Name of the Faculty Member	No. of Papers Published / Presented in Journals or Conferences	No. of STTP, Workshops, Seminars Participated/Attended
1	Dr. N. Seetharamaiah	5	-
2	Dr. Syed Nawazish Mehdi	4	1
3	Mr. Sirajuddin Elyas Khany	2	-
4	Mr. Hakeemuddin Ahmed	2	1
5	Dr Ishrat M.M.	1	3
6	Mr. D. Srinivas Rao	4	-
7	Dr. Mohd. Viquar Mohiuddin	1	3
8	Mr. G. Prasanna Kumar	1	2
9	Mr. Md Abdul Samad	1	-
10	Mrs. N.B.V. Lakshmi Kumari	1	1
11	Mrs. Naseema	2	-
12	Mrs. O. Hema Latha	2	4
13	Mrs. S. Shahar Banu	1	1
14	Mr. S. Irfan Sadaq	2	2
15	Mrs. G. Sailaja	3	-
16	Mr. Abdul Raheem Junaidi	1	1
17	Mr. V Suvarna Kumar	1	2
18	Mr. V Dharam Singh	1	1
19	Mr. Md Yahiya	2	4

20	Mr. Hasham Ali	2	-
21	Mr. Minhajuddin Saif	1	-
22	Mr. M A Mujeeb Iqbal	1	-
23	Mr. Syed Adil	4	-
24	Mrs. Syeda Romana	2	1
25	Mr. Md. Irfan	1	1
26	Mr. Ahmed Abdul Muneem	-	2
27	Mr. K.M.D Mazharuddin	1	-

STUDENT INFORMATION

RESULT ANALYSIS

The following students of Mechanical Engineering Department have excelled in their academic performance and succeeded in achieving the University Ranks.

List of University Ranks obtained by the students of Mechanical Engineering for the batch 2014-18

S.No	Roll Number	Name of the Student	Percentage Secured	OU-Rank
1	1604-14-736-027	Mohammed Abdul Haneef	4769	II
2	1604-14-736-013	Syed Ahmed Irfanuddin	4722	III
3	1604-14-736-018	Mohammed Danish Nabeel	4695	V
4	1604-14-736-022	Mohammed Abdul Kashif	4694	VI
5	1604-14-736-002	Syed Abdul Mannan	4604	VIII
6	1604-14-736-029	Mohammed Mazin	4585	IX
7	1604-14-736-064	Mohammed Irfan Siddiq	4584	X

List of University Ranks obtained by the students of Production Engineering for the batch 2014-18

S.No	Roll Number	Name of the Student	Percentage Secured	OU-Rank
1	1604-14-738-031	Mohammed Abulfateh Nasrullah S	4056	I

CAMPUS RECRUITMENT

The Recruitment Report for Academic Year 2017-2018 is as follows.

S. No.	Organization	Mechanical	Production	CTC / Remuneration offered
1	Infosys	10	-	Rs. 3.25 Lacs P.A.
2	Amazon (Alexa)	7	2	Rs. 2.5 Lacs P.A.
3	Amazon (Customer Service)	11	2	Rs. 1.73 to 2.10 Lacs P.A. + benefits
4	Cyient	5	-	Rs. 3.25 Lacs P.A.
	Total Jobs Offered	33	4	-

ADOSPHOS-2018

Student Technical Festival organized by Mechanical Engineering Department, under the banner of **ADSOPHOS-2018** on 11th and 12th February, 2018. Under the guidance of faculty organizers, Dr. Mohd. Viquar Mohiuddin and Dr. Sadak Ali Khan, the department has showcased a wide variety of Technical events such as – **Technoledge, Mechanova, Auction-inn, Adsomania, Mech-o-shield, Mr.Weld and Robo-challange**. The Mechanical Engineering Department also displayed its innovative department projects, R&D projects and SAE projects in the Technical Exhibition of the event organized at Ghulam Ahmed Hall. These events were designed so as to test the technical and non-scholastic skills of the students. Based on the performance of the students in the events, the winners were awarded.







