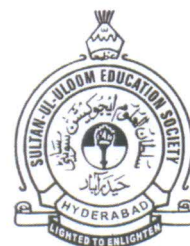
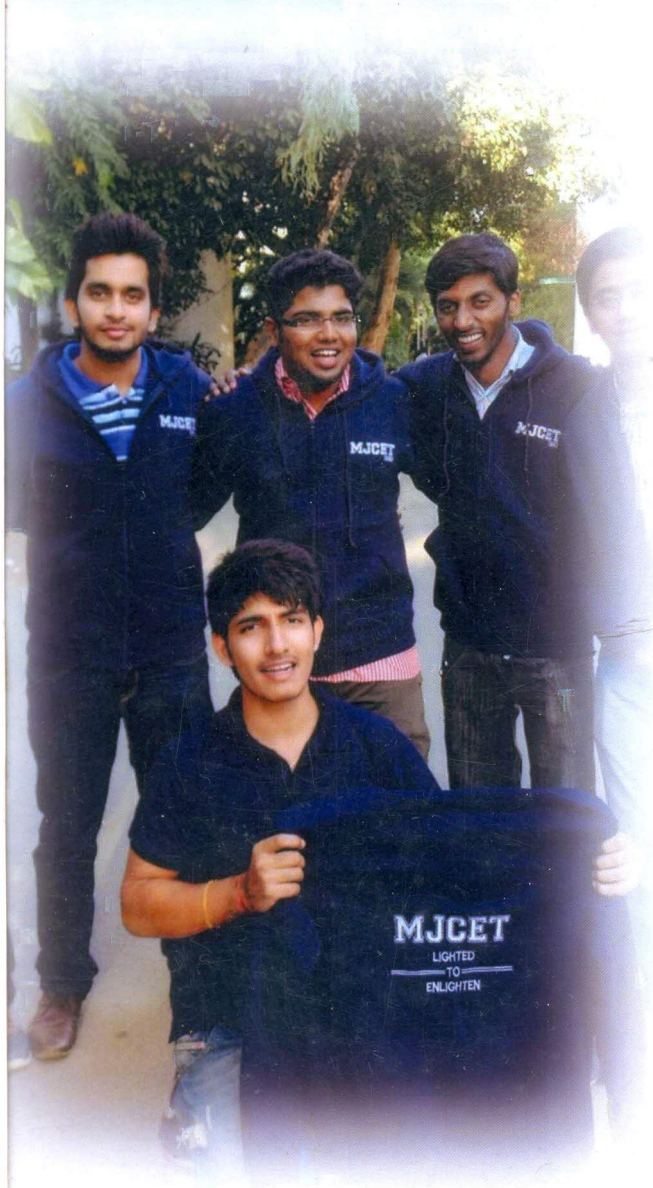


M.J.C.E.T.

ANNUAL REPORT

2014-2015



M.J.C.E.T.
ANNUAL REPORT
2014-2015



STATS & FACTS

The MJ College of Engineering and Technology is offering four year B.E. degree and two year M.E. / M. Tech. degree programmes. The ECE and Mechanical Engineering Departments have recognized Research Centers for pursuing Ph. D. program of O.U. About 12 research scholars are presently pursuing Ph. D. in them. The Civil Engineering Department has applied for approval of Research Center from the academic year 2015-2016.



INTAKE



INTAKE

Course Details	Intake 2014-2015
Courses Leading to B.E. Degree	
Civil Engineering	120
Computer Science and Engineering	120
Electrical and Electronics Engineering	60
Electronics and Communication Engineering	120
Electronics and Instrumentation Engineering	60
Information Technology	120
Mechanical Engineering	120
Production Engineering	60
Total intake in B.E. Courses	780
Courses Leading to M.E. / M. Tech. Degree	
CAD/CAM	18
Computer Science and Engineering	24
Digital Systems	24
Structural Engineering	18
Power Electronics and Systems	18
Total intake in M.E. / M. Tech. Degree	102

The intake in B.E. CSE programme could not be increased in academic year 2015-2016 as AICTE has made accreditation by NBA mandatory for variation of intake and starting of new programmes. The college has applied for NBA Accreditation of all the eight B.E. programmes. The fee has been paid on May 2, 2015. The committee visit is expected to be in November 2015.

COLLEGE ADMINISTRATION



- Dr. Basheer Ahmed, Advisor Cum Director
- Prof. N. Krishnan, Principal
- Prof. Ashfaque Jafari, Dean Academics
- Prof. Syed Ferhathullah Hussainy, Dean Administration and Student Affairs
- Mr. K. V. Narsimha Rao, M.A., Registrar

Heads of the Departments and Sections

- Prof. Moinuddin Ahmed, Ph. D., Head, CED
- Prof. A.A. Moiz Qyser, Ph. D., Head, CSED
- Prof. M. P. Soni, Ph. D., Head, EED
- Prof. Kaleem Fatima, Ph. D., Head, ECED
- Ms. Maniza Hijab, M.C.A., M. Tech., Head, ITD
- Prof. Shaik Khader Vali, Ph. D., Head, MED
- Prof. Syed Yousufuddin, M.E., PG Chief Coordinator
- Dr. Abdul Majeed, Ph. D. Head, Mathematics Section
- Prof. M.A. Khadeer, Ph. D., Head, Physics Section
- Prof. Y. Arun Kumar, Ph. D., Head, Chemistry Section
- Dr. Nirmala Nair, Ph. D., Head, English Section



Associate Heads of the Departments

- Mr. D. Ram Mohan Rao, M. Tech., CED
- Ms. Qamar Sultana, M. Tech., CED
- Ms. Afreen Sultana, M. Tech., CSED
- Ms. Ayzaz Fatima, M. Tech., EED
- Prof. Md. Haseeb Khan, Ph. D., EED
- Mr. J. K. Nag, M. E., ECED
- Dr. Uma N. Dulhare, ITD
- Mr. D. Srinivas Rao, M. Tech., MED



M.E. Coordinators

- Dr. Md. Hamraj, Structural Engineering
- Mrs. Ayesha Naaz, Digital Systems
- Mr. J. V. R. Vithal, Power Electronics Systems
- Prof. N. Seetaramaiah, CAD/CAM
- Mrs. Gauri Patil, CSE



Programme Coordinators

- Civil Engg.: Mr. Toufeeque Anwar, M. E.
- CSE : Ms. Fehmina Tarannum, M. Tech.
- EE : Ms. Fabia Akbar, M. Tech.
- ECE : Mr. Arifuddin Sohel, M.S.
- EIE : Mr. Shaik Abdul Qadeer, M. Tech.
- IT : Mr. N. Md. Jubair Basha, M. Tech.
- ME : Mr. A. S. Reddy, M.S.
- PE : Mr. Sirajuddin Ilyas Khany M.S.

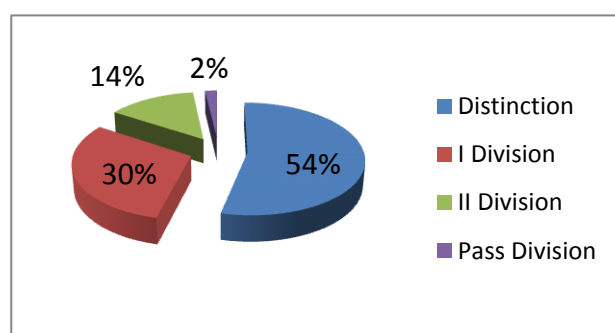
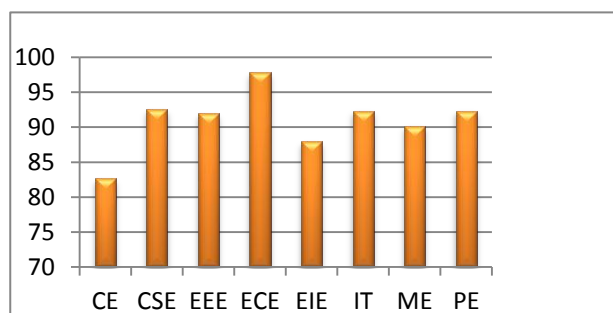
Library and Placements

- Prof. B. Satyanarayana, Chief Librarian
- Mr. Arun Chandra, Director, Placements
- Dr. S.M. Farooq Basha, Placement Officer

RESULTS



Programme	Percentage Result
Civil Engineering	82.6
Computer Science and Engineering	92.5
Electrical and Electronics Engineering	92.0
Electronics and Communication Engineering	97.9
Electronics and Instrumentation Engineering	88.0
Information Technology	92.3
Mechanical Engineering	90.1
Production Engineering	92.3

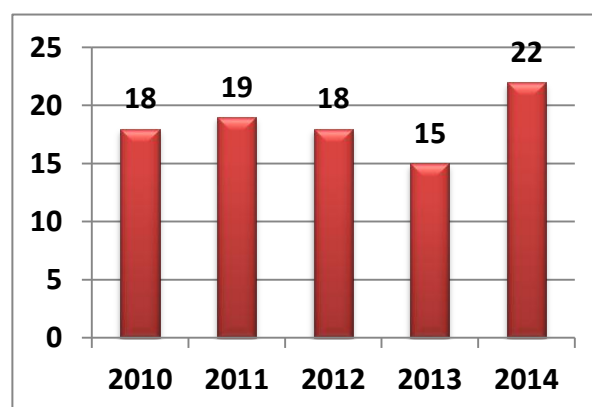


The average result of B.E. final year was 90.7% and the overall result of the 2010 admitted batch which graduated in June 2014 was 82%. About 54% of the graduates obtained distinction and another 30% first class.



UNIVERSITY RANKS

Programme	No. of Ranks	Ranks Obtained
Civil	3	2,4,7
CSE	1	8
EEE	1	2
ECE	2	5,6
EIE	6	2,4,5,6,8,9
IT	3	3,8,9
ME	4	2,5,6,9
PE	2	3,4
TOTAL	22	



The trend of decreasing number of ranks observed over the last four years has been broken with MJCEt obtaining 22 OU ranks in 2014.

PLACEMENTS



Company	# of offers
Infosys	146
Wipro	83
I Gate	14
CSC	21
HSBC	11
Amazon	31
Multiplier Solutions	5
Deloitte	5
X-Tream I.T., Cladoop, Virtusa, S & P Capital, VISA	5 (1 Each)
Total	321

Programme	# of offers
Civil Engineering	9
CSE	89
EEE	33
ECE	100
EIE	11
IT	38
Mechanical engineering	28
Production Engineering	2
PG courses	11
Total	321

A total of 321 students have received placement offers from thirteen companies which visited the campus during the academic year 2014-2015. The highest annual salary offered is Rs. 6.00 lakhs by VISA.



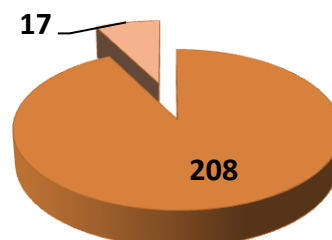
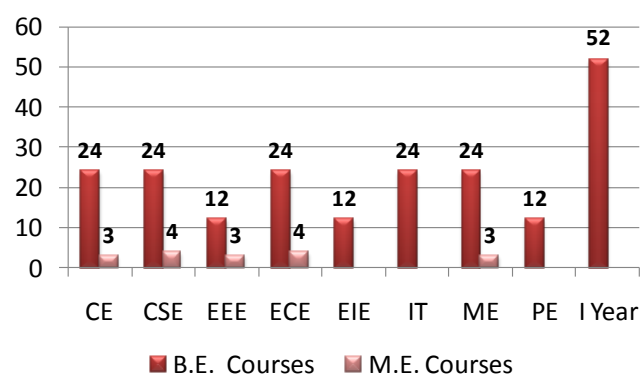
FACULTY

Sanctioned Posts

Programmes	Sanctioned Faculty	Faculty : Student Ratio
B.E.	208	1:15
M.E.	17	1:12
Total	225	



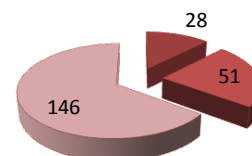
Programme wise Faculty



Faculty Cadre

Faculty Cadre

Professors	28
Associate Professors	51
Assistant Professors	146



The total sanctioned faculty posts are 225. The Programme wise faculty and the cadre information is furnished above.



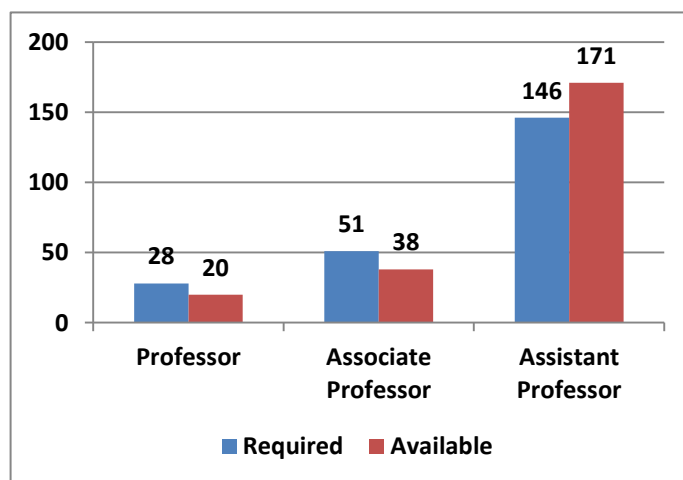
FACULTY PROFILE, DEVELOPMENT & ACHIEVEMENTS

All the faculty members are post graduate and are meeting the AICTE norms of qualification. Thirty six faculty members are doctorate and seventy five more are pursuing Ph. D. degree from various Universities. However, there is a deficiency in the cadre ratio due to shortage of Professors and Associate Professors.

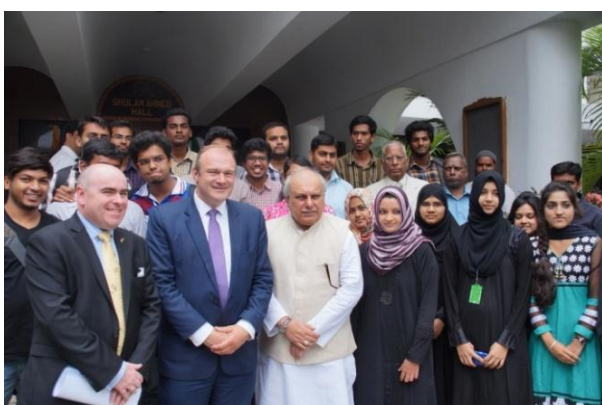


The Department and cadre wise distribution of the existing faculty is presented below.

Dept	Professors	Associate Professors	Assistant Professors
CE	6	7	13+1 AC
CSE	1	5	26
EE	2	6	18+1 AC
ECE	2	6	19
IT	1	3	22
ME	5	8	25
BS&H	3	3	48
Total	20	38	171



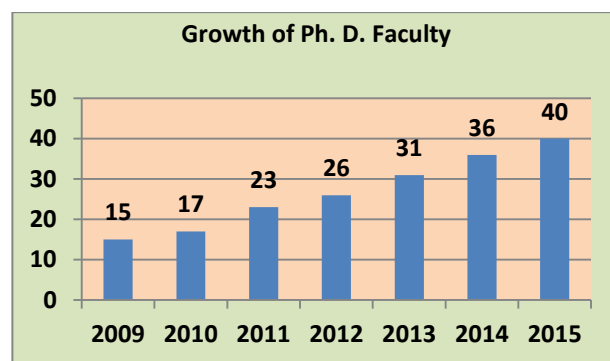
While there are adequate number of Ph. D. qualified faculty in Civil and Mechanical Engineering Departments, a shortage exists in all the other Departments, especially in the ECE, CSE and IT Departments. Efforts are being made to overcome the deficiency.



During the Academic year 2014-2015, four faculty members have obtained Ph. D. degree. The details are furnished below.

Faculty Name	Department
Dr. G.M. Sayeed Ahmed	Mechanical
Dr. M. Sowjanya	Mechanical
Dr. Haseeb Khan	EEE
Dr. Shaik Qadeer	EIE

Nine of the faculty members who are pursuing Ph. D. degree have qualified the pre Ph. D. examination in the academic year 2014-2015.



A large number of faculty members have attended conferences and published papers. Details of paper publications in Journals are as follows:

Department	National Journals	International Journals
CED	-	4
CSED	4	7
EED	-	12
ITD	2	6
MED	8	12
Mathematics	-	4
Physics	2	1
Chemistry	-	7
English	6	2
TOTAL	22	55



Details of paper presentations in conferences and seminars are as follows:

Department	National Conference	International Conference
CED	2	1
CSED	1	6
EED	2	3
ECED	17	2
ITD	3	-
MED	12	14
Mathematics	2	-
Physics	6	9
Chemistry	3	2
TOTAL	48	37

Faculty members also participated in National and International workshops and refresher courses. The details are as follows:

Department	National Workshop	International Workshop
CSED	42	2
ECED	8	3
IT	21	
Mathematics	9	
English	5	
TOTAL	85	5

The following faculty members have notable achievements to their credit during the academic year 2014-2015.

1. **Mr. Arifuddin Sohel**, Associate Professor of ECE received travel grant from IEEE Asia Pacific Region to visit U of Putra, Malaysia under networking initiative of Circuits and Systems Society.
2. **Prof. Uma N Dulhare**, of IT Department chaired International Congress 2014 at Bangkok in November 2014
3. **Dr. Nirmala Nair**, Head of English Department delivered a lecture titled 'Renewed Recharged Reinvigorated' in November 2014 for Rotary Club, Hyderabad Central
4. **Dr. Noushima Humera Ghouri**, delivered a talk on Applications of DE in day to day life at Madina Degree College
5. **Dr. Abdul Majeed**, Head Mathematics published a book on Mathematics I for OU students



ACADEMIC ACTIVITIES

The CSED, ITD, EED and ECED have organized two week workshops in collaboration with IIT Bombay and IIT Kharagpur under Remote Center model.

1. 2 Week ISTE workshop on '**Computer Networking**' with IIT Bombay in June July 2014
2. 2-week ISTE workshop on '**Computer Programming**' in Collaboration with IIT Bombay from June 16-21, 2014
3. 2-Week workshop on '**control Systems**' in December 2014 in collaboration with IIT Kharagpur
4. 2-Week ISTE workshop on '**Pedagogy for Effective use of ICT in Engineering education**' in collaboration with IIT Bombay in January 2015





Apart from the collaborative workshops with IITs, the CSE, ECE, IT and Mathematics Departments have organized three or two day National Conferences and Workshops. These details are furnished below:

1. 3-Day National Conference on **'Circuits, Signals and Systems'** - January 22-24, 2015. 30 papers presented. Prominent speakers from IIT Bombay, Kharagpur and IBM, USA delivered lectures. Organized by **ECED**.
2. 3 Day workshop on **'Big Data Analytics'** - December 15-17, 2014. Organized by **ITD**.
3. 2-Day National Workshop on **'Mathematical Technology'** in December 2014. Organized by **Mathematics Department**.
4. 3-Day training on **'Rational Software Architecture'** in collaboration with IBM from June 24-26, 2014. Organized by **CSED**.
5. 2-Day workshop on **'Micro Electro Mechanical System Design'** in June 2014 in collaboration with IEEE Circuits and Systems Chapter, Hyderabad Section. Organized by **ECED**.

Training

A three day training programme on 'Rational Software Architect' in collaboration with IBM was organized for the faculty of CSED in June 2014.

Industry Institute Interaction

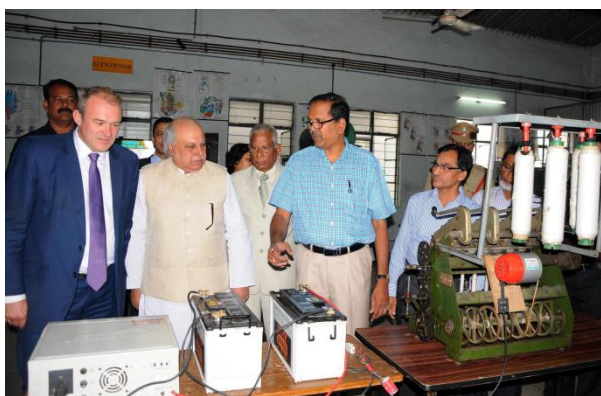
As part of NBA preparation, IT Department has involved reputed Industry personnel for teaching industry related topics to the students.



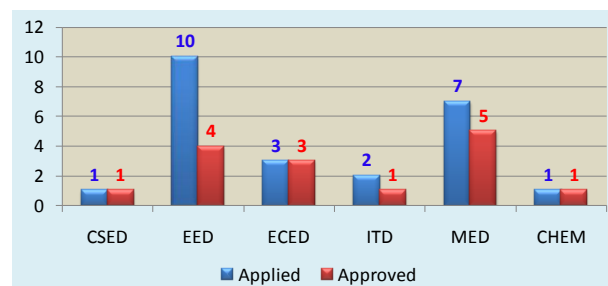
RESEARCH & DEVELOPMENT AND CONSULTANCY

A Budget of Rs. 10.00 lakhs was allotted for in-house R & D projects in the year 2014-2015. There was an overwhelming response from students and faculty with the R & D cell receiving about 24 project proposals.

Post evaluation by the R & D Committee only 15 projects were approved for seed funding. The total amount sanctioned for these 15 projects is Rs. 8.5 lakhs.



The Department wise details of the number of proposals received and sanction is presented below graphically.



Many of the sanctioned projects are already complete and are being successfully demonstrated by the students.

Based upon the research project completed successfully last year, the college has filed for a patent of 'Solar Powered Charka'.

A partial listing of the projects sanctioned for the year 2014-2015 is given below:

1. Unmanned Aerial Vehicle by ECED students under supervision of Prof. Kaleem Fatima.
2. Sign language recognition interface using kinetic and leap sensors by ECED students under supervision of Mrs. Nazeerunnisa, Assistant Professor.
3. E- Foundry to eliminate degassing process by MED students under supervision of Mr. Md. Viqar Mohiuddin, Associate Professor.



4. Design and Fabrication of Solar Water Pump and Techno-economic feasibility study of solar power for the pumping needs of SUES campus by MED students under supervision of Mrs. Ishrath M Mirzana, Associate Professor.



5. Preserving Intermittent Data in Vanets by CSED students under the supervision of Mr Md. Umar Farooq, Assistant Professor.

6. Biodiesel Extraction – Phase III – an Interdepartmental project under the supervision of Dr. Satyanarayana MG, Assistant Professor, Chemistry.



7. Wireless Surveillance Robot controlled via voice and with Fire alerting system by ITD students under the supervision of Prof. Uma N. Duhare.

8. Internet Equipped Notice Board by EED students under the supervision of Dr. Shaik Qadeer, Associate Professor.



The CED has been empanelled by the Telangana Police Housing Corporation and R & B Departments as Consultants for Proof Checking of Structural Designs. In the last quarter the Department has executed works amounting to Rs. 1.15 lakhs.



STUDENT PROFESSIONAL CHAPTER ACTIVITIES

The Year 2015 was yet again vibrant with a host of professional student chapters bagging awards at National Level.

i. Robotics Club

About twenty one members of robotics club participated in ROBOCON 2015 whose theme was ROBOMINTON.





The Team won the Best Aesthetic Robot award in the contest organized by Asian Broadcasting Union (ABU) and Doordarshan at MIT, Pune, in March 2015. The team stood at all India 3rd Position and 1st position in Telangana & A.P. The team designed better robots as compared to those by teams from IIIT, Hyderabad, various NITs, and IITs, to achieve this coveted position.

ii. E-CELL

Muffakham Jah College of Engineering and Technology, participated in Entrepreneurship Week India 2015, conducted throughout India from 14th to 21st February 2015. MJCET won the following three awards in this event:

1. Entrepreneurship Week India 2015 Championship Award
2. E-Week Outreach award
3. E-Week at schools award.

iii. SAE INDIA

The SAE India MJCET Student Chapter teams participated in two National Events.

QUAD TORC – 2014: For this competition the team designed and fabricated a Quad Bike.



The competition was held from August 2nd to 4th, 2014 at SRM University, Meerut. The vehicle won the Best Business Presentation Award and the Best Driver Award. The team stood 3rd amongst the 50 participating teams from all over India.



SAE BAJA – 2015: For this competition the team designed and fabricated an All Terrain Vehicle which competed under different testing conditions like break test, acceleration test, hill climbing, suspension etc. The competition was held during February 2015 and the team stood 5th in Business Plan Presentation, 9th in Cost Analysis, 20th in Design and 53rd amongst the 110 participating teams from all over India.



iv. IEEE MJCET STUDENT BRANCH

The IEEE Hyderabad Section conferred the most vibrant Student Branch Award 2014 on the MJCET Student Branch



v. IEEE MJCET PES STUDENT CHAPTER

This chapter won the Darrel Chong International Award for 2014 in recognition of the workshops it organized for school children to create awareness about electrical hazards.



vi. CSI MJCET STUDENT CHAPTER

The CSI MJCET Student Chapter organized the Mozilla Hackathon in collaboration with Mozilla Firefox. This was a 12 hour intense web development contest in which the goal was to develop a fully functional website based on the client's requirements.

It also conducted several other events like seminar on 'Entrepreneurship and Good Usage of Internet' in February 2015, workshop on 'Web Development and Design' in February 2015 and various other guest lectures.

vii. IEEE – CS MJCET STUDENT CHAPTER

The chapter conducted various events like seminar on cyber security in February 2015, IQ Test titled 'Back to School' in March 2015, C and C++ Interview Session in September 2014, seminar on GRE Preparation and Processing in September 2014 and a one day workshop on Adobe Photoshop in March 2015.

viii. EWB INDIA MJCET STUDENT CHAPTER

The EWB (India) Student chapter has received the Best Chapter Award for the year 2014.



It organized the following events last year:

- i. National Level Airtel Marathon for which it was given an Award of Appreciation as the best organizing team.
- ii. A two Day Conference on 'Technologies for Sustainable Ecosystem' in March 2015 in association with EWB India Student Chapters of BITS Hyderabad, Gitam University, GNITC and TKREC



ADSOPHOS - 2015

The Annual Student Technical Festival was organized on February 15 and 16 2015. All the Six Departments organized various technical events during the two day festival. The highlight of the event was the Project Exhibition which was organized in the Ghulam Ahmed Hall where the students displayed their mini projects as well as the Robots and vehicles fabricated for various competitions. The exhibition attracted a large crowd including several dignitaries. Advice was also given by some dignitaries to the students for improving the models.





STUDENT ACHIEVEMENTS

- i. Md. Umar Khaled Mirza and Md. Furqan won first prize in web designing contest held at CBIT in March 2015
- ii. Ashad Dewani, Mohd. Arbaaz Shareef and Mohd. Furqan won the Mozilla Application Development Contest at MCJET in January 2015
- iii. M.A. Waseem, Md. Umar Khaled Mirza, Md. Asif Pasha and Ms. Ayesha Farooqui won the website development competition organized at MJCET in January 2015.



iv. Md. Umair Abdullah won the Transcendence Business Quiz at St. Francis College.

v. Abdullah Akil Janoo of second year CSE participated in the national finals in Haryana for the Microsoft Imagine Cup – 2015. He along with three other students from different colleges developed a medical application to identify mental illness by playing a game.

vi. Md. Habeeb Ur Rahman of 4th Year PE received 'Student Scholarship Award' during SAE Convention.

vii. Md. Azhar, Abdul Kalam, Shanu Zaidi and Md. Shoaib of 3rd IT stood third in Mozilla Hackathon.

viii. Shaik Rauhon Ahmed, Md. Misbahuddin, Junaid presented a paper in International conference ICRTESM JNU – 2015

ix. A team of 3 students of 3rd year ECE and 2 eight standard students of SUES won 3rd prize in the project competition ANVESHANA for the project titled 'Electronic Guide Stick for Visually Handicapped'. The school students were trained to present the project.



POTPOURRI

CLASS ROOM INFRASTRUCTURE IMPROVEMENT

Two Class rooms, one in CED and the other in MED were taken up for improvement. SUES sanctioned an amount of Rs. 4 lakhs for each class room. The improvements include extension of dais to the full width of class room, installation of LCD projector, LED lamps, new fans and furniture from Godrej.

It is proposed to take up similar work in other class rooms in a phased manner by allocating suitable budget for it.

OUTREACH



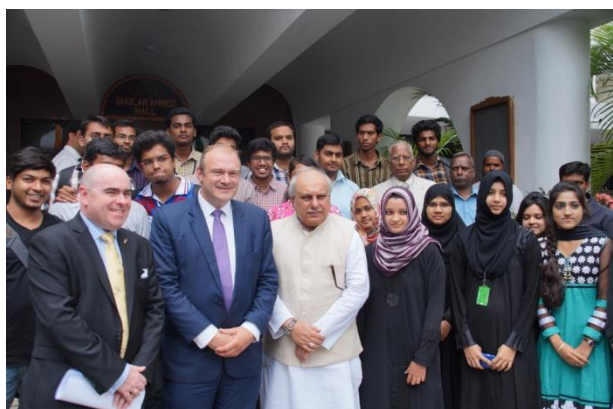
- ✓ Prof. Kaleem Fatima, Head ECED, presented a technical talk as a resource person on 'Modern Trends in Digital Design using Verilog' at MGIT, in December 2014.



- ✓ Mr. Hakeem Aejaaz Aslam, Assistant Professor of ECED delivered a one day workshop on 'Microprocessors and Microcontrollers' at Al-Habeeb College of Engineering and Technology.



- ✓ Mr. D. Ram Mohan Rao, Associate Professor of CED has delivered a guest lecture at Engineering Staff College of India on Water Supply Planning



- ✓ Dr. Nirmala Rita Nair, Head English Department delivered lectures on 'Renewed Recharged Reinvigorated' and 'Expect the Best and Get It' at Rotary Club and St. Ann's Junior College respectively.
- ✓ Prof. M.A. Khadeer, Head Physics Section, chaired the Annual Meeting of All India Engineers Forum, Dammam, KSA Chapter.



ENVISAGE AND WALL OF FAME BY ITD

- ✓ IT Department organized the mini project contest on 18 April, 2015. Students of II and III year IT participated in the contest. Three best mini projects were awarded with prizes.



- ✓ The IT Alumni organized the event 'Wall of Fame' on 14 August 2014, wherein Mr Khizer Daniyal, Ph. D. student of U of Arkansas, USA and Mr. Mohd. Moazam Munawaruddin, Senior Associate, Wipro Technologies, India, motivated the III and IV year students.



INNOVATIA PANOPLY BY CSED

The Alumni Association of MJCET and CSI MJCET Student chapter organized this one day event in March 2015 wherein a mini-project contest was held for the 3rd year students of CSED. Top three projects were given awards.



HAMFEST BY ECED

The ECE Department in collaboration with LaMakaan Radio Club organized a two day National Festival 'HAMFEST'.



Held in November 2014 with Amateur Radio as the theme, more than 700 participants from over 8 Asia Pacific countries participated in the festival. The event was brought to MJCET by Mr. Ashar Farhaan, an Alumni of MJCET.

AKASH CENTER



The ECE Department has been made an Akash Center for which a sponsorship of Rs. 1 lakh has been received from MHRD along with 280 Akash Tablets. The center is to develop applications for Akash Tablet.

GUEST LECTURES



All the Department Organized Guest lectures by inviting prominent persons from reputed organizations like Tech Mahindra, Suzlon India, IT eLEARN, Google, Microsoft Inc., IIIT-H, ISRO, IEEE, Infosys, UoH, IIT-H, U of Illinois etc.

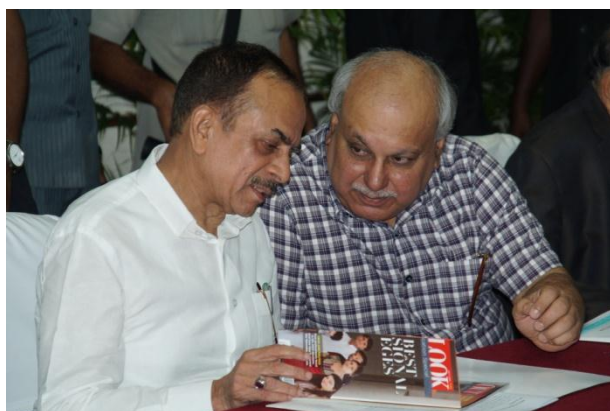
COMPETITIVE EXAMS



5 Students of Civil Engineering and 10 of ECE have qualified the GATE examination. About 25 students of ECE have qualified in GRE / TOEFL. CAT exam has been cleared by 2 ECE students.



VISIT BY DIGNITARIES



1. **Dignitary from U.K.:** Mr. Edward Davey, Secretary of State for Energy and Climate Change, visited MJCET on 27-08-2014.

2. **Hon'ble Minister of Telangana:** Mr. K. T. Rama Rao, Panchayat Raj and IT Minister in Government of Telangana was the chief guest for the Graduation Day Ceremony on 8-07-2014



3. **Director General – Anti – Corruption Bureau:** Mr. A. K. Khan, IPS, was the chief guest during the Commencement Day Function on 10-09-2014



4. **Hon'ble Deputy Chief Minister of Telangana:** Mr. Md. Mehmood Ali, was the chief guest for the Annual Day function on 04-04-2015.



SPORTS

EVENTS WON

Football

Won the 1st Telangana State Inter Engineering Trophy in March 2015

Basketball

Won the Inter College Basketball Tournament in March 2015

Lawn Tennis

Secured Second Runner up position in OU Inter College Tournament in November 2014

Representation in OU Team

Women Basketball, Under 19 HCA Cricket, Football, Basketball



Tournaments Organized

Inter branch tournaments in Basketball, Badminton boys and girls, Cricket, Chess, Carroms for boys and girls, Football, Throwball for girls, Table



Table Tennis for boys and girls and Volleyball were organized for MJCET Students.

Apart from the above the following Tournaments were also organized:



i. OU Inter College Table Tennis Tournament for Men in September 2014

ii. OU Inter College Football Tournament in November 2014 at OU ground

iii. 1st Telangana State Inter Colleges Football and Basketball Tournament in February 2015

iv. Exclusive Girls Sports meet in March 2015 in which Badminton, Carroms, Chess, Table Tennis, Basketball, Box Cricket and Tug of War were conducted.



Individual Achievements

Menitha % IT

- Gold Medal in 100 m hurdles, Silver medal in triple jump in Telangana State Athletic Championship held in September 2014
- Bronze Medal in 100 m hurdles and in triple jump in OU Inter College Athletic meet in December 2014

Akhilesh Reddy, % EEE

Gold Medal in 95 Kg OU Weight lifting championship in December 2014

Syeda Niamatunnisa, 2/4 ECE

Silver medal in Judo in OU Inter college Championship in January 2015

Srikar Prasad, % ME

Bronze Medal in 95 Kg OU wrestling championship in November 2014

Syed Mahmood Ali, 4/4 EIE

Silver Medal in Judo Open Weight category in Inter College Championship in January 2015





NATIONAL RANKING

For the year 2014, MJCET has improved its rank from 53 to 48 in the All India Engineering Colleges ranking by the English National News Magazine 'Outlook'.

Apart from 'Outlook' magazine, MJCET has also features at the 50th position amongst the 'Top 50 Private Engineering Colleges' in the English National news magazine 'The Week'.

ACKNOWLEDGEMENT

The Advisor cum Director, Principal, Deans and HODs are thankful to the Sultan-Ul-Uloom Education Society for its timely guidance during the last academic year. The contribution of faculty, staff and students in the academic success is acknowledged. We are also thankful to Print and Electronic Media for giving excellent coverage of activities and creating greater visibility of MJCET at State and National level.

M.J.C.E.T.

ANNUAL REPORT

2015-2016



MUFFAKHAM JAH

COLLEGE OF ENGINEERING AND TECHNOLOGY



ANNUAL REPORT

2015-2016



FACTS & FIGURES

The MJ College of Engineering and Technology is offering four year B.E. degree and two year M.E. / M. Tech. degree programmes. The ECE and Mechanical Engineering Departments have recognized Research Centers for pursuing Ph. D. program of O.U. About 15 research scholars are presently pursuing Ph. D. in them. The application of Civil Engineering Department for a Research Center is pending with the Osmania University since close to one year. The college is planning to apply for Research Center in CSE Department during this year.

INTAKE



Course Details	Intake 2015-2016
Courses Leading to B.E. Degree	
Civil Engineering	120
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Electronics and Communication Engineering	120
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Courses Leading to M.E. / M. Tech. Degree	
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Computer Science and Engineering	24
Digital Systems	24
Structural Engineering	18
Power Electronics and Systems	18
Total intake in M.E. / M. Tech. Degree	102

The increase of intake in B.E. CSE Programme from existing 120 to 180 can be done only after accreditation by NBA. The college has applied for NBA Accreditation of all the eight B.E. programmes. The visit by the expert committee is scheduled in the months of August – September, 2016. The final dates are yet to be received from NBA.

COLLEGE ADMINISTRATION

- Dr. Basheer Ahmed, Advisor Cum Director
- Prof. N. Krishnan, Principal
- Prof. Ashfaq Jafari, Dean Academics
- Prof. Syed Ferhathullah Hussainy, Dean Administration and Student Affairs
- Mr. K. V. Narsimha Rao, M.A., Registrar

Heads of the Departments and Sections

- Prof. Moinuddin Ahmed, Ph. D., Head, CED
- Prof. A.A. Moiz Qyser, Ph. D., Head, CSED
- Prof. Haseeb Khan, Ph. D., Head, EED
- Prof. Kaleem Fatima, Ph. D., Head, ECED
- Ms. Maniza Hijab, M.C.A., M. Tech., Head, ITD
- Prof. Shaik Khader Vali, Ph. D., Head, MED
- Prof. Syed Yousufuddin, M.E., PG Chief Coordinator
- Dr. Abdul Majeed, Ph. D. Head, Mathematics Section
- Prof. M.A. Khadeer, Ph. D., Head, Physics Section
- Prof. Y. Arun Kumar, Ph. D., Head, Chemistry Section
- Dr. Nirmala Nair, Ph. D., Head, English Section

Associate Heads of the Departments

- Mr. D. Ram Mohan Rao, M. Tech., CED
- Ms. Qamar Sultana, M. Tech., CED
- Ms. Afreen Sultana, M. Tech., CSED
- Ms. Ayjaz Fatima, M. Tech., EED
- Mr. J. V. R. Vithal., EED
- Mr. J. K. Nag, M. E., ECED
- Dr. Uma N. Dulhare, ITD
- Mr. D. Srinivas Rao, M. Tech., MED

M.E. Coordinators

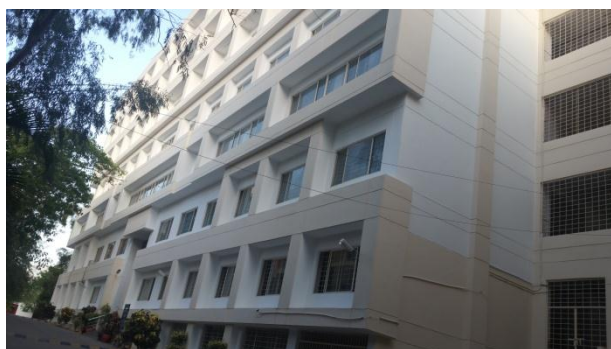
- Dr. Md. Hamraj, Structural Engineering
- Mrs. Ayesha Naaz, Digital Systems
- Prof. M.P. Soni, Power Electronics Systems
- Prof. N. Seetaramaiah, CAD/CAM
- Mrs. Gauri Patil, CSE

Programme Coordinators

- Civil Engg.: Mr. Toufeeque Anwar, M. E.
- CSE : Dr. M. A. Jabbar
- EE : Ms. Fabia Akbar, M. Tech.
- ECE : Dr. Arifuddin Sohail
- EIE : Prof. Shaik Abdul Qadeer, Ph. D.
- IT : Mr. N. Md. Jubair Basha, M. Tech.
- ME : Prof. A. S. Reddy, Ph. D.
- PE : Mr. Sirajuddin Ilyas Khany M.S.

Library and Placements

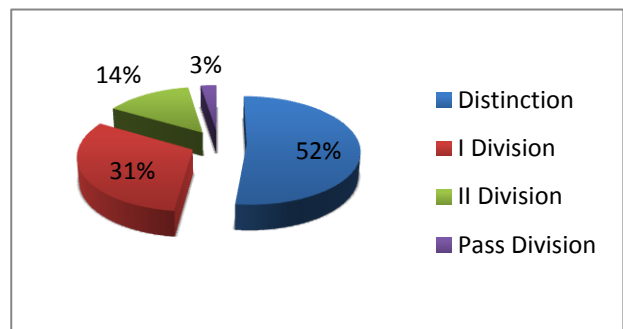
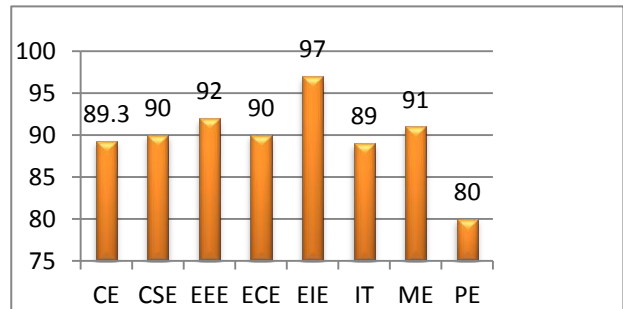
- Prof. B. Satyanarayana, Chief Librarian
- Mr. Arun Chandra, Director, Placements
- Prof. S.M. Farooq Basha, Placement Officer



RESULTS

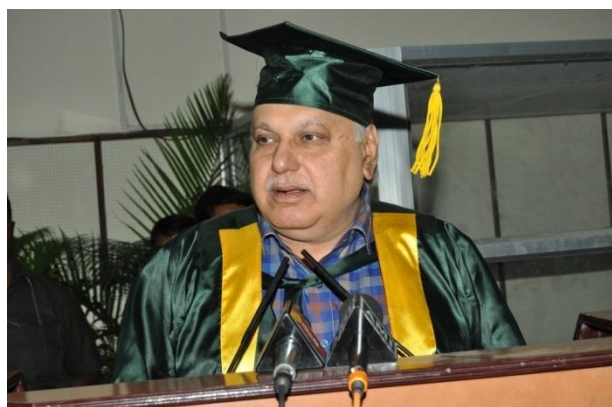


Programme	Percentage Result
Civil Engineering	89.3
Computer Science and Engineering	90.0
Electrical and Electronics Engineering	92.0
Electronics and Communication Engineering	90.0
Electronics and Instrumentation Engineering	97.0
Information Technology	89.0
Mechanical Engineering	91.0
Production Engineering	80



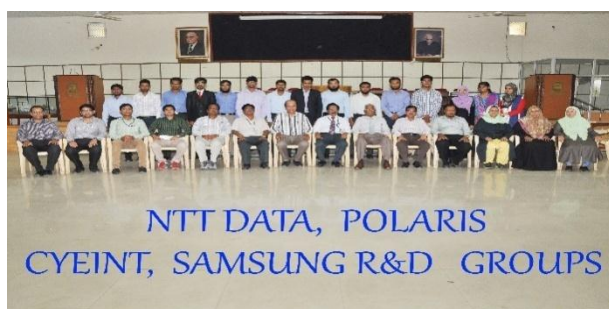
The average result of B.E. final year was 89.8% and the overall result of the 2011 batch which graduated in June 2015 was 79.3%. About 52% of the graduates obtained distinction and another 31% first class.

UNIVERSITY RANKS



Programme	No. of Ranks	Ranks Obtained
Civil	3	7,9,10
CSE	-	-
EEE	1	2
ECE	-	-
EIE	5	1, 2, 3, 4,
IT	1	9
ME	1	6
PE	1	8
TOTAL	12	

In the year 2015, CSE and ECE branches have not secured a University Rank. The Heads of the Departments have analyzed in detail the reasons for securing lower number of University ranks during 2015. The general perception is that since the admission process of this batch was disturbed due to delay in AICTE approval, students of high caliber opted for other institutions in order to avoid uncertainty. Hence even though the results of this batch are at par with previous batches, ranks could not be secured at the University level. The Hon. Secretary has been apprised of these facts through a detailed note.



PLACEMENTS

Company	# of
Infosys	93
Wipro Technologies	59
Capgemini	32
NTT Data	5
Polaris Financial	2
Samsung R &D	2
Xtream IT	1
Amazon	37
Persistent System	2
Cyient Pvt. Limited	8
Axeness, Uber, Genpact,	59
TOTAL	300

A total of 300 students have received placement offers from 15 companies during the academic year 2015-2016. The highest annual salary offered is Rs. 7.5 lakhs by Samsung R &D.

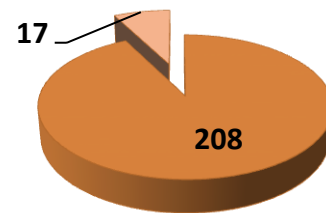
Programme	# of Offers
Civil Engineering	8
CSE	86
EEE	32
ECE	80
Mechanical Engineering	26
IT	44
Production Engineering	8
P.G. Courses	7
Total	300



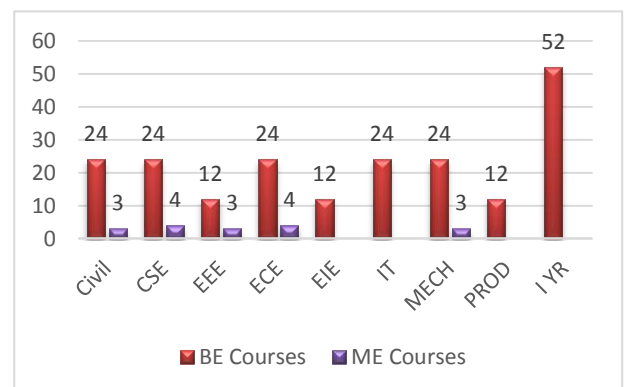
FACULTY

Sanctioned Posts

Programmes	Sanctioned Faculty	Faculty : Student Ratio
B.E.	208	1:15
M.E.	17	1:12
Total	225	



Programme wise Faculty Faculty Cadre



The total sanctioned faculty posts are 225. The Programme wise faculty and the cadre information are furnished in this section.

Faculty Cadre

Professors - 25

Assoc Professors - 35

Assistant Professors - 172



FACULTY PROFILE, DEVELOPMENT & ACHIEVEMENTS

All the faculty members are post graduate and are meeting the AICTE norms of qualification. 42 faculty members are doctorate and 75 more are pursuing Ph. D. degree from various Universities. However, there is a deficiency in the cadre ratio due to shortage of Professors and Associate Professors.

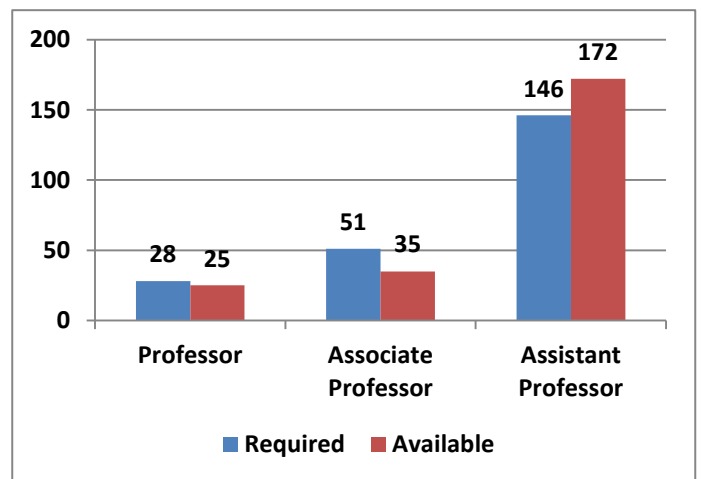


The Department and cadre wise distribution of the existing faculty is presented below.

Dept	Professors	Associate Professors	Assistant Professors
CE	7 (4)	6	18
CSE	2 (1)	7	23
EE	3 (2)	5	19
ECE	1	5	22
IT	1	3	21
ME	6 (3)	8	23+1 AC
BS&H	5 (1)	1	45
Total	25 (13)	35	172

() Figure in brackets represents regular and ratified professors.

AC – Academic Consultant



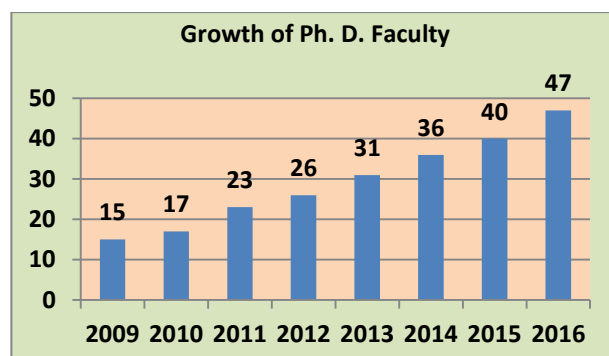
While there are adequate number of Ph. D. qualified faculty in Civil and Mechanical Engineering Departments, a shortage exists in all the other Departments, especially in the ECE, CSE and IT Departments.



During the Academic year 2015-2016, five faculty members have obtained Ph. D. degree. The details are furnished below.

Faculty Name	Department
Dr. M. A. Jabbar	CSED
Dr. A. S. Reddy	Mechanical
Dr. Sadak Ali Khan	Mechanical
Dr. Arifuddin Soheli	ECE
Dr. Shaik Kareem Ahmed	Physics

The faculty members in ECE and EE who have recently acquired Ph. D. degree are to be promoted shortly as Professors. This will overcome the deficiency to some extent.



A large number of faculty members have attended conferences and published papers. Details of paper publications in Journals are as follows:

Department	National Journals	International Journals
CED	2	4
CSED	1	8
ECED	-	1
EED	10	11
ITD	1	4
MED	9	14
I Year	21	30
TOTAL	44	72



Details of paper presentations in conferences and seminars are as follows:

Department	National Conference	International Conference
CED	-	2
CSED	1	4
EED	4	-
ECED		1
ITD	2	4
MED	20	15
TOTAL	27	26



Faculty members also participated in National and International workshops and refresher courses. The details are as follows:

Department	National Workshop	International Workshop
CSED	9	
ECED	16	3
Civil Engg	20	
IT	21	
Mathematics	9	
English	5	
TOTAL	80	3



The following faculty members have notable achievements to their credit during the academic year 2015-2016.

- Dr. Kaleem Fatima is nominated as the Chair of CAS/EDS Chapter, IEEE Hyderabad Section, for the year 2016.
- Dr. Arifuddin Sohel is nominated as the Vice- Chair of CAS/EDS Chapter, IEEE Hyderabad Section, for the year 2016.
- Three ECE Dept faculty were the organizing members of the 3-day “**Prime Asia-2015**” Conference
- Dr. Uma N Dulhare, Professor, ITD received “Best Academic Researcher Award 2016” from ASDF Global.
- ACM honored Mr. Jubair Basha, Assistant Professor, ITD, with Senior Membership for his contribution towards ACM





ACADEMIC ACTIVITIES

The CED, CSED and ECED have organized two week workshops in collaboration with IIT Bombay and IIT Kharagpur under Remote Center model.

A 1-Day “IEEE CASS OUTREACH INITIATIVE CIRCUIT & SYSTEM WORKSHOP” was conducted by the ECED on 30-11-2015 and IEEE CASS Chapter, Japan Section and Joint Chapter of IEEE CAS/ED Societies, Hyderabad Section in association with MJCET. Prof. N. Kasa and Prof. H. Asahara, from Okayama University Japan, visited the college with four Japanese students.



MoUs Signed with Industry

A Memorandum of Understanding between Redpines Signals Inc. Hyderabad, India and the Department of E.C.E MJCET was signed on 06-04-2016. The dignitaries present on behalf of Redpine Signals were Mr. N. Venkatesh, and Mr. Raju Macharla, Sr. Vice Presidents, Redpine Signals. Dignitaries for and on behalf of MJCET, Hyderabad were Mr. Zafar Javeed, Hon. Secretary, SUES, Dr. Basheer Ahmed, Advisor Cum Director, MJCET and Dr. Kaleem Fatima, Head ECE Dept, MJCET. Dr. Arifuddin Sohel was the course coordinator for the IOTDD (IOT for device development) Wizbee program.

Industry Academia Interaction

MJCET in collaboration with Microsoft, has established “Microsoft IT Academy (MSITA)” in Oct-2015 under the Industry-Academia Interaction Program. MJCET has organized 9-day training program on “Microsoft Cloud Fundamentals” from 26-31, Dec-2015 and 08-10, Jan-2016. A Microsoft certified trainer has imparted the training to 55 students of III & IV Year B.E. CSE/IT/ECE/EEE and 5 faculty members of CSE & IT. The MTA certification examination was conducted on January 19, 2016 and 53 students out of 55 and 5 faculty members passed it.





INNOVATIA PANOPLY

CSE Department in collaboration with MJCET Alumni Association, and CSI Students chapter, conducted a one day event “INNOVATIA PANOPLY” on 12th April 2016. It was a mini project contest in which 3rd year students of CSED displayed their mini projects. Three best projects were awarded with cash prize and certificate of excellence.

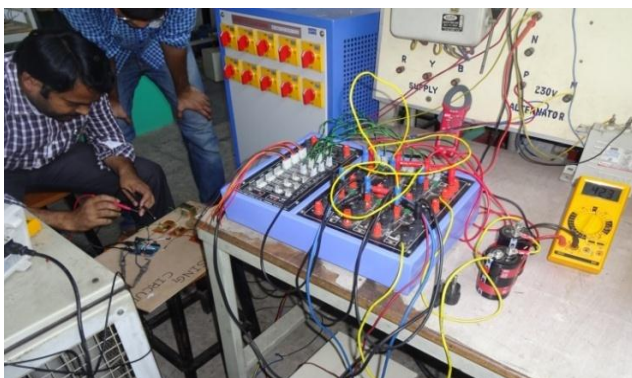
CSED also organized several other workshops: 6-Day Microsoft Training on “Cloud Fundamentals” during 26-31 Dec 2015, and “Mobile Application Development” during 08-13 Mar 2016. Guest Lectures on: Future of Agile Methodology, and IT Infrastructure Library in Jan and April 2016.

ENVISAGE 2016

ITD in association with ACM Students Chapter conducted a mini project contest “Envisage 2016” on 31-Mar-2016 from 1.30 to 5.00 pm in ITD labs. The jury comprising of guests from Osmania University and Industry judged the projects based on innovative idea, implementation and presentation.

TTCIE - 2015

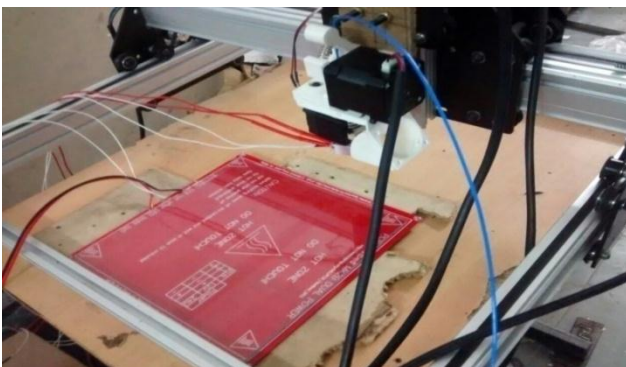
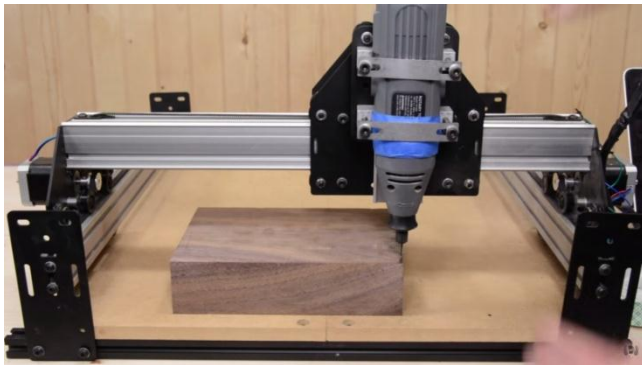
Students of MJCET and technology have organized a two day student’s State conference on 10th and 11th October 2015. The title of conference was “Trends, Technologies, Challenges and Innovations in Engineering (TTCIE - 2015)”. A total of 17 papers were shortlisted for final presentations out of 50 papers received from various colleges.



RESEARCH & DEVELOPMENT AND CONSULTANCY

A Budget of Rs. 10.00 lakhs was allotted for in-house R & D projects in the year 2015-2016. There was an overwhelming response from students and faculty with the R & D cell receiving about 21 project proposals.

This year, 21 project proposals were submitted from various departments seeking R & D funding. After review, 8 projects were approved for funding to the extent of Rs. 6.53 lakhs.



Many of the sanctioned projects are already complete and are being successfully demonstrated by students. Following is the partial list of projects sanctioned and approved for the year 2015-16

1. **Project Title:** Production of low temperatures using Peltier effect.
Project guide: Dr. M. Sowjanya, Assistant Prof., MED.
Sanctioned Amount: Rs.40,000/
2. **Project Title:** Design, Analysis and Development of prototype 30 KVAR STATCOM. **Project team:** Mr. J. V. R. Vithal, Assoc. Prof., EED & Mr. K. Mohammed Rafi, Asst. Prof., EED. Sanctioned amount: **Rs. 3, 92, 000/-**
3. **Project Title:** Solar powered Auto rickshaw and Design optimization and development of Solar Motorcycle. Project Guide: Prof. A. S. Reddy & Mrs. O. Hemaltha. Sanctioned Amount: **60, 000 /-**
4. **Project Title:** Experimental Investigation of dynamic behaviour of structure using magneto-rheological fluid dampers. Project Guide: Mrs. G. Sailaja, Asst Prof, MED. Sanctioned Amount: **Rs 40, 000**
5. **Project Title:** Influence of degassing effect on quality of Aluminium alloy castings. Project Guide: Mr. Viqar Mohiuddin, Assoc Prof, MED, Sanction Amount: **Rs 38575/-**



Dr. A P J Abdul Kalam

Innovation Day

The students of MJCET in the commemoration of Dr. Abdul Kalam conducted the **Abdul Kalam Innovation Day**. Dr. P.A. Govindacharyulu, Professor of VCE, was Chief Guest. The aim of the event was to encourage students to do Innovative projects. Three Best Final year Projects for the academic year 2015-2016 are awarded on this day based on the Innovativeness, originality, Quality of technical work, thesis presentation and answers to queries

i. Robotics Club

The MJCET Robocon Team, comprising of 24 students from ECE/MECH and other departments participated at

National level robotics contest ABU ROBOCON held at Pune in 1st week of March 2015. The Theme of the contest was “Clean Energy Recharging the World” The team built two Robots: Hybrid Robot and Eco Robot. They also designed the arena of the contest. Although the team did not win the award this year, the robots were indigenously built and were fully functional. The College Management was gracious to sponsor an amount of Rs. 2.5 Lakhs for designing and building the robots.

ii. E-CELL

Muffakham Jah college of Engineering and Technology was declared E Week Champion Award and at a function held in Bangalore on 5th March 2016. Muffakham Jah College has won the championship award for the third time successively

iii. SAE INDIA

The SAE India MJCET Student Chapter teams participated in various National Events.



SAE BAJA – 2015: The students of Mechanical & Production Engineering have fabricated an ATV this year to participate in Mahindra BAJA SAEINDIA 2016. The vehicle dubbed EL FATEH (v2.0) has been designed, analyzed, fabricated and extensively tested by the students in their college premises and participated in Mahindra BAJA SAEINDIA-2016. Team stood 1st Position in Andhra Pradesh & Telangana States and 60th Position in overall ranking Nationwide

GoKart competition: Team of 25 students of Mechanical and Production Engineering departments under the guidance of Faculty Advisor Dr. A.S. Reddy, Professor, M.E.D. have fabricated a **GoKart** vehicle and participated in the competition named “International Series of Karting (ISK) 2016” held at Lahari Resort in Hyderabad from 8th to 11th March, 2016. Team Falcon Racers of MJCET stood 10th Position among 55 teams participated from all over the country and got eligibility for direct entry into next league race of ISK2016 to be held at Bangalore

EcoKart competition: Team of 15 students from Mechanical Engineering Department under the guidance of Faculty



Advisor Mr. Suvarna Kumar, Assistant Professor, M.E.D. have fabricated an **EcoKart** Vehicle and participated in the competition held at BML Munjal University, Gurgaon, Haryana from 11th to 13th March 2016. Team Falconz MJCET gained 201 points which make it stand at 15th position.

iv. CSI MJCET STUDENT CHAPTER

The chapter conducted various events during the last academic year. Hackathon 2015 was organized in collaboration with CSI and ACM Students chapters. This was a 12 hour event providing the students a platform to showcase their problem solving abilities.



The other events were: Master the GRE on 31-July-2015, Placed on 21-Aug-2015, Seminar on Photoshop on 18-sep-2015, Poster Design Competition on 19-Sep-2015, Workshop on HTML and CSS on 16-oct-2015, JavaScript and PHP workshop on 30-oct-2015. It also organized “Sports Day” event exclusively for students of CSI Chapter on 13th April 2016



v. IEEE CS MJCET STUDENT CHAPTER

The chapter conducted various events: LET US C/C++ Workshop, Seminar on Internet of Things, Computers and Internet, Workshop on Graphics Design, and Product Building.





vi. EWB INDIA MJCET STUDENT CHAPTER

EWB MJCET chapter organized a two day conference on “Technologies for Sustainable Ecosystem” in association with various other student chapters of BITS Hyderabad, Gitam University, GNITC and TKREC on 26-27 Mar 2016.

It had sessions on energy conservation, water conservation, agriculture, green building technologies, problems of society, a project exhibition, quiz competitions, cleanliness drive included.

ADSOPHOS - 2016

The Annual Student Technical Festival was organized on February 22nd and 23rd 2015. All the Six Departments organized various technical events during the two day festival. The highlight of the event was the Project Exhibition which was organized in the Ghulam Ahmed Hall where the students displayed their mini projects as well as the Robots and vehicles fabricated for various competitions.

IEEE SPAC 2016 - A 2-Day SPAC – 2016 was organized in the ECE Dept. on 22nd & 23rd February 2016. Dr. Lakshminarayana Merugu, Principal, Kshatriya College of Engg & IEEE was chief guest. Various technical events and talk held during two days.





STUDENT ACHIEVEMENTS

- i. A team of three students of 3rd year ECE won the State level 1st Prize and a cash award of Rs. 30,000.0 in the project competition titled “ANVESSHANA” for the project titled ”Control of wheel chair using hand gestures” at Institution of Engineers, Khairatabad, Hyderabad. 30 engineering colleges participated in the event
- ii. Students of BE Civil have won 1st, 5th and 7th prize in “Survey Quiz” conducted by Institution of Engineers and Survey of India Dept in March 2016



- iii. Mr. Arshad Dewani, BE CSE IV year student won “ Highest Committed Student Branch Activist Award” from CSI in Dec 2015 during Golden Jubilee Annual Convention in New Delhi.
- iv. Mr. M. A. Mabood, Ms. FarheenFatima and Ms. Batul Naeem Hussain published a research paper entitled “ IoT: A Survey of Architecture, Applications, Security” in IJARCCCE Journal.
- v. Mr. Mohammed Umair Abdullah of 2/4 CSE wo Transdence Business Quiz at “Arthashastra – 2015” organized by St. Francis College. He received cash prize of Rs 3000.
- vi. 10 Students of B.E. EIE have published papers in 7 International Conferences.
 - Ms Sana Mujeeb final year student of ECE has been chosen for “ President Dr. Abdul Kalam Excellece Award” of \$2000 for the year 2016 thro’ Mesco from Consultative Committee of Indian Muslims, North America.



POTPOURRI

Establishment of “Center for Innovative Computing”

CIC is established to enable MJCET's Tie up with IT Giants like IBM, Microsoft, SAP, Oracle for enhancing employability of students. It will be used for conducting IIT – MHRD funded workshops.

Facilities at CIC:

- 60 All in one Computers (Intel i5 core, 8GB RAM, 1 TB Hard Disk)
- Overhead Epson Projector, with Motorized Screen, Bosch Audio System
- Modern Tailor-made Furniture



Modernization of 2 Computer Labs

Two computer labs in the department of CSE were modernized with new chairs, ACs, Ceiling Fans, flooring, etc. It is proposed to take up similar work in other labs in a phased manner by allocating suitable budget for it.

SEATING FACILITY FOR STUDENTS

A seating facility for the students has been inaugurated by Janab Khan Lateef Mohammed Khan Sahab, Honble Chairman SUES, Janab Zafar Javeed Sahab, Hon. Secretary and other board members.



GUEST LECTURES

All the Department Organized Guest lectures by inviting prominent persons from reputed organizations like: GITAM, DRDL, Redpine Signals, Tech Mahindra, Suzlon India, IT eLEARN, Google, Microsoft Inc., IIIT-H, ISRO, IEEE, Infosys, UoH, IIT-H, U of Illinois etc.



COMPETITIVE EXAMS

3 Students of Civil Engineering and 17 of ECE have qualified the GATE 2016 examination. About 25 students of ECE have qualified in GRE / TOEFL. CAT exam has been cleared by 2 ECE students.





VISIT OF DIGNITARIES

Managing Director TSTRANSCO, TSGENCO

Mr. D. Prabhakar Rao, was the chief guest for Commencement Day 2015, held on 05-08-2015.



Managing Director, Hyderabad Metro Rail Ltd.

Mr. N. V. S. Reddy, MD, HMR Ltd, was the Chief Guest for Graduation Day 2015 on 22-08-2015



IEEE Dignitary from Japan

The “IEEE CASS OUTREACH INITIATIVE CIRCUIT & SYSTEM WORKSHOP” was organized by the IEEE CASS Chapter, Japan Section and Joint Chapter of IEEE CAS/ED Societies, Hyderabad Section in association with MJCET. Prof. N. Kasa and Prof. H. Asahara, from Okayama University Japan, visited the college with four Japanese students. The workshop included poster presentation by 15 PG students.





SPORTS

EVENTS WON

Football

- ✓ IIIT Inter Engineering Tournament
[28th February 2016]
- ✓ SNIT Inter Engineering Tournament
[7th October, 2015]

Lawn Tennis

- ✓ 8th Indian Open Inter Engineering
Colleges Doubles Tournament
Organized by VNR – VJIT. [27th
February 2016]

Caroms

- ✓ Open Inter College Tournament
organized by Bits Pilani, Hyderabad
from 28th – 30th January 2016
- ✓ Open Inter College Tournament
organized by Sakshi Media, Hyderabad
on 21st January 2016
- ✓ SNIT Inter Engineering Tournament
held on 7th October, 2015.
- ✓ CVSR Inter Engineering Tournament
held on 10th October, 2015.





RUNNER UPS

Football

- ✓ CBIT National Tournament [20th February 2016]
- ✓ CMR Group of Institutions Tournament [21st September, 2015]
- ✓ O.U. Inter College Tournament [31st October, 2015]

Basketball Team [Girls]

- ✓ MVSR Inter Engineering Tournament [8th & 9th March, 2016]

Lawn Tennis

- ✓ O.U. Inter College Tournament org by MJCET [3rd November, 2015]
- ✓ 8th Indian Open Inter Engineering Colleges Singles Tournament Organized by VNR – VJIT. [27th February 2016]

Chess [Men]

- ✓ O.U. Inter College Tournament organized by CBIT from 21st to 23rd September, 2015.

Tournaments Organized

- OU Inter College Football [Men] Tournament from 29th to 31st October, 2015 at O.U. grounds.
- OU Inter College Lawn Tennis [Men] Tournament on 3rd November, 2015 at Sanjeeva Park, Secunderabad.
- OU Inter College Throw ball [women] Tournament on 5th & 6th January, 2016 at MJCET campus, Hyderabad



NATIONAL RANKING

For the year 2015, MJCET has been ranked at 55 out of 100 Top Government and Private Engineering Colleges in the country by the English National News Magazine 'Outlook'.

The 'Education World' Magazine of May 2016, has ranked MJCET at 11th position among the Government and Private Engineering Colleges of Telangana.

ACKNOWLEDGEMENT

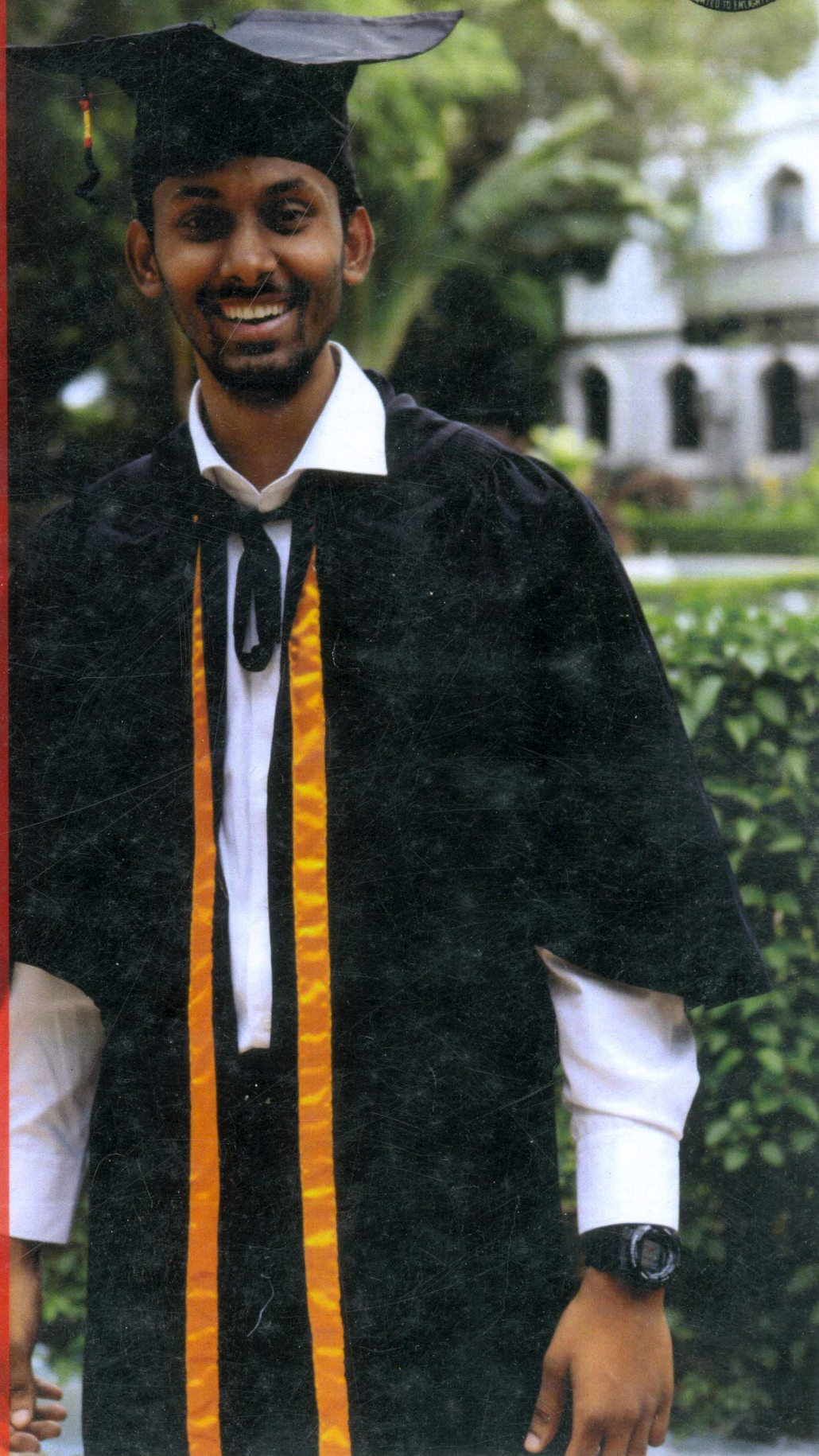
The Advisor cum Director, Principal, Deans and HODs are thankful to the Sultan-Ul-Uloom Education Society for its timely guidance during the last academic year. The contribution of faculty, staff and students in the academic success is acknowledged. We are also thankful to Print and Electronic Media for giving excellent coverage of activities and creating greater visibility of MJCET at State and National level.

M.J.C.E.T.

ANNUAL REPORT

2016-2017

ANNUAL REPORT 2017



**MUFFAKHAM
JAH**

**COLLEGE OF
ENGINEERING AND
TECHNOLOGY
HYDERABAD**



FACTS & FIGURES

The MJ College of Engineering and Technology is offering four year B.E. degree and two year M.E. / M. Tech. degree programmes. The ECE and Mechanical Engineering Departments have recognized Research Centers for pursuing Ph. D. program of O.U. About 16 research scholars are presently pursuing Ph. D. in them. And also we have applied to Osmania University for approval to start Research Centers in Civil Engineering, Electrical Engineering, and Computer Science Engineering departments in the coming academic year.



INTAKE



Course Details	Intake 2016-2017
Courses Leading to B.E. Degree	
Civil Engineering	120
Computer Science and Engineering	120
Electrical and Electronics Engineering	60
Electronics and Communication Engineering	120
Electronics and Instrumentation Engineering	60
Information Technology	120
Mechanical Engineering	120
Production Engineering	60
Total intake in B.E. Courses	780
Courses Leading to M.E. / M. Tech. Degree	
CAD/CAM	18
Computer Science and Engineering	24
Digital Systems	24
Structural Engineering	18
Power Electronics and Systems	18
Total intake in M.E. / M. Tech. Degree	102

The increase of intake in B.E. CSE Programme from existing 120 to 180 can be done only after accreditation by NBA. The college has applied for NBA Accreditation of all the eight B.E. programmes. The visit by the expert committee is scheduled in the months of August – September, 2016. The final dates are yet to be received from NBA.



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- Prof. Mousmi A. Chaurasia, Ph.D., Head, ITD
- Prof. N. Seetharamaiah, Ph. D., Head, MED
- Prof. Syed Yousufuddin, M.E., PG Chief Coordinator
- Dr. Abdul Majeed, Ph. D. Head, Mathematics Section
- Prof. M.A. Khadeer, Ph. D., Head, Physics Section
- Prof. Y. Arun Kumar, Ph. D., Head, Chemistry Section
- Dr. Nirmala Nair, Ph. D., Head, English Section

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- Mr. Shakeel Aijaz, M. Tech., CED
- Ms. Qamar Sultana, M. Tech., CED
- Ms. Afreen Sultana, M. Tech., CSED
- Ms. Ayjaz Fatima, M. Tech., EED
- Mr. J. K. Nag, M. E., ECED
- Dr. Devashis Pal, Ph.D., ITD
- Dr. Viqar Mohiuddin, Ph.D., MED

M.E. Coordinators

- Prof. Abdullah Shareef, Structural Engineering
- Dr. Ayesha Naaz, Digital Systems
- Prof. J.V.R. Vithal, Power Electronics Systems
- Prof. Shaik Khadar Valli, CAD/CAM
- Prof. Uma N. Dulhare, CSE

Programme Coordinators

- Civil Engg.: Mr. Toufeeque Anwar, M. E.
- CSE : Mrs. Fahmeena Tarannum, M.Tech.
- EE : Ms. Fabia Akbar, M. Tech.
- ECE : Dr. Arifuddin Sohail
- EIE : Prof. Shaik Abdul Qadeer, Ph. D.
- IT : Mrs. Fouzia Sayeedunnisa, M. Tech.
- ME : Prof. A. S. Reddy, Ph. D.
- PE : Mr. Sirajuddin Ilyas Khany M.S.

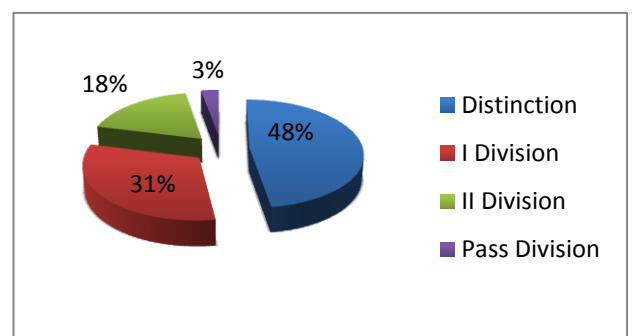
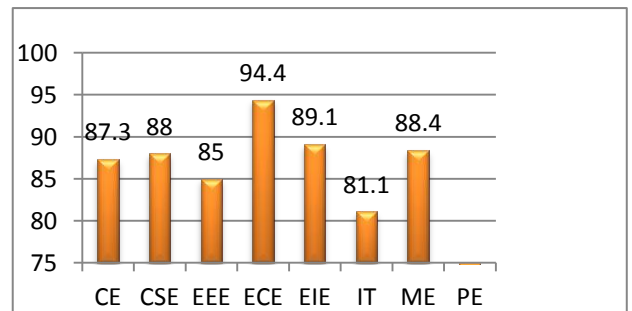
Library and Placements

- Prof. B. Satyanarayana, Chief Librarian
- Mr. Arun Chandra, Director, Placements

RESULTS



Programme	Percentage Result
Civil Engineering	87.3
Computer Science and Engineering	88.0
Electrical and Electronics Engineering	85.0
Electronics and Communication Engineering	94.4
Electronics and Instrumentation Engineering	89.1
Information Technology	81.1
Mechanical Engineering	88.4
Production Engineering	73.0



The average result of the 2011 batch which graduated in June 2016 was 87.1%. About 48% of the graduates obtained distinction and another 31% first class.

UNIVERSITY RANKS

In the year 2016, CSE, ECE, Civil, and EIE department students have secured **First Ranks** in Osmania University among affiliated colleges. The department wise ranks have been given in the below table.

SN O	Department	Rank	Name of the Student	Percentage
1	Civil Engg	I	Ms. Amreen Fatima	91.4%
2	CSED	I	Mr. MD Yaseen Pasha	93.2%
3	EED	II	Mr. K Ahmed Ali Khan	89.5%
4	ECED	I	Ms. Sana Mujeeb	93.6%
5	Mech Engg	IV	Mr. Shaik Rizwan Ahmed	89.1%
6	ITD	IV	Ms. Salika Wahdath	89.3%
7	EIE	I, II, III	Ms Sidra Ali, Mr Veluri Vasanth Mr. M Arshad Ali Khan	82.8% 79.7% 74.5 %



PLACEMENTS



Company	# of
Tech Mahindra	53
Infosys	77
Capgemini	58
Wipro Technologies	33
IBM	5
Xtream IT	6
Amazon	36
Redpine Signals	1
Veda IIT, Service Now, Multiplier Solution, Genpact	27
TOTAL	300

A total of 296 students have received placement offers from 15 companies during the academic year 2016-2017. The highest annual salary offered is Rs. 7.5 lakhs by Service Now. MJCET signed an MoU with TASK for enhancing employability of our students, in this regard, SAP training has been organized on at MJCET

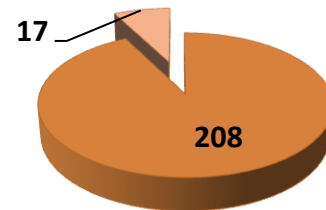
Programme	# of Offers
Civil Engineering	10
CSE	79
EEE	25
ECE	86
Mechanical Engineering	24
IT	66
Production Engineering	6
Total	300



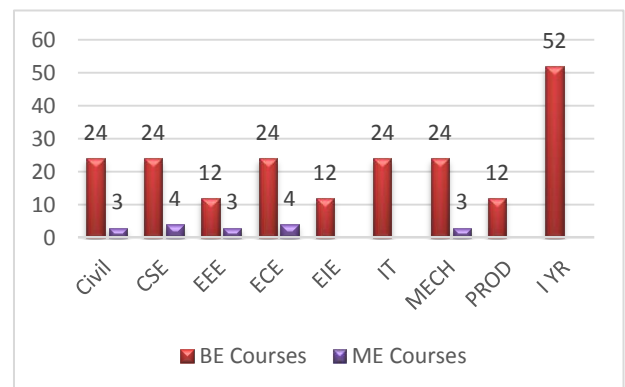
FACULTY

Sanctioned Posts

Programmes	Sanctioned Faculty	Faculty : Student Ratio
B.E.	208	1:15
M.E.	17	1:12
Total	225	



Programme wise Faculty Faculty Cadre



The total sanctioned faculty posts are 225. The Programme wise faculty and the cadre information are furnished in this section.

Faculty Cadre

Professors - 31

Assoc Professors -30

Assistant Professors - 172



FACULTY PROFILE, DEVELOPMENT & ACHIEVEMENTS

All the faculty members are post graduate and are meeting the AICTE norms of qualification. 50 faculty members are doctorate and 80 more are pursuing Ph. D. degree from various Universities. However, there is a deficiency in the cadre ratio due to shortage of Professors and Associate Professors.

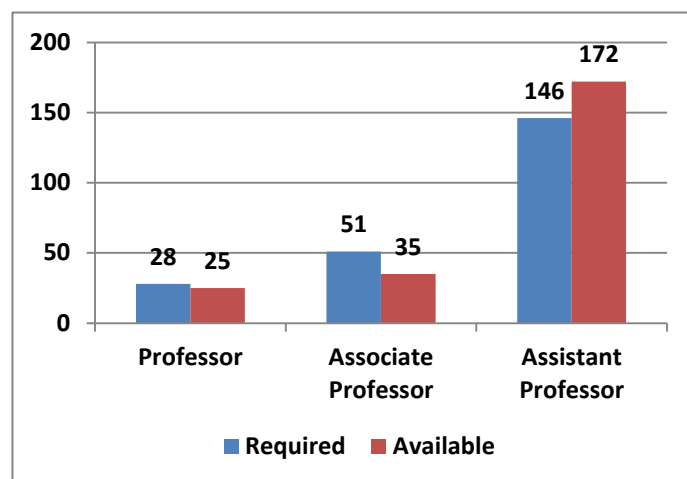


The Department and cadre wise distribution of the existing faculty is presented below.

Dept	Professors	Associate Professors	Assistant Professors
CE	7 (4)	6	18
CSE	2 (1)	7	23
EE	3 (2)	5	19
ECE	1	5	22
IT	1	3	21
ME	6 (3)	8	23+1 AC
BS&H	5 (1)	1	45
Total	25 (13)	35	172

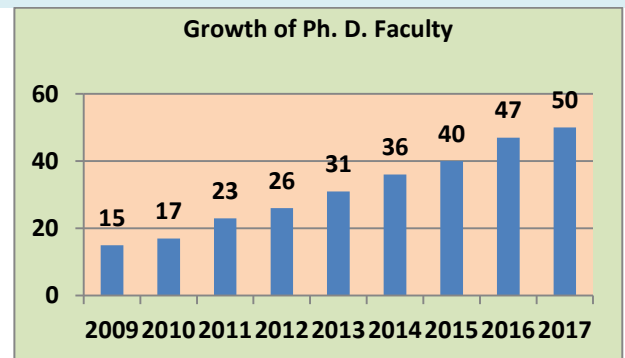
() Figure in brackets represents regular and ratified professors.

AC – Academic Consultant



During the Academic year 2016-2017, **nine** faculty members have obtained Ph. D. degree.

Faculty Name	Depart
Dr. Mrs. Ayesha Naaz	ECED
Dr. Mrs. Nazia Parveen	ECED
Dr. Mohammed Viqar Mohiuddin	MED
Dr. Syed Ferhatullah Hussainy	MED
Dr. J. Dhanraj Parmar	MED
Dr. Mehboob Shaik	EED
Dr. Syed Amanullah Hussaini	Maths
Dr. Mrs. Afroz Meher	MED
Dr. K. V. Subba Reddy	CSED



A large number of faculty members have attended conferences and published papers. Details of paper publications in Journals, Conferences, and Workshops are as follows:

Department	National Journals	International Journals
CED	1	7
CSED	-	7
ECED	1	16
EED	-	18
ITD	-	4
MED	9	30
I Year	21	12
TOTAL	32	72



Details of paper presentations in conferences and seminars are as follows:

Department	National Conference	International Conference
CED	1	2
CSED	1	12
EED	1	6
ECED	5	9
ITD	-	4
MED	20	110
TOTAL	28	133

Faculty members also participated in National and International workshops and refresher courses. The details are as follows:

Department	National Workshop	International Workshop
CSED	3	
ECED	8	2
Civil Engg	23	
IT	17	
MED	103	
EED	8	
Mathematics	9	
English	5	
TOTAL	176	2

The following faculty members have notable achievements to their credit during the academic year 2016-2017.

Dr. Arifuddin Sohel has received funding of USD 6300 (Grant of Rs. 4,30,000.00) from IEEE CAS Region 10 to conduct workshop on "Internet of Things" in Hyderabad and in Indonesia.

Dr. Kaleem Fatima. Prof. & Head ECE Department was the member of the organizing committee for the 5-day International "30th VLSI Design and 16th Embedded Systems Conference" at HICC, Hyderabad from 7th to 11th January 2017

Dr. Uma N Dulhare, Professor, ITD received "Best Educator and Scholar Award" from NFED, Coimbatore.



ACADEMIC ACTIVITIES

The ECE and Civil Engineering Departments organized two week workshops in collaboration with IIT Bombay and IIT Kharagpur under Remote Center model.

Workshops Organized by Departments

MJCET was chosen as Nodal Center in AICTE South Central Region for coordinating Smart India Hackathon 2017 activities among AICTE approved Institutions. “Awareness Workshop on Smart India Hackathon 2017” for faculty and students from various Institutions in Hyderabad under MJCET Nodal Center was organized on 06-01-17





Dr. Abhay Jere, Organizing Secretary, Smart India Hackathon 2017, **Dr. Dileep N. Malkhede**, Advisor-I, AICTE, **Shri R. Balamruugan**, Regional Officer, AICTE-SCRO, and Janab Zafar Javeed sahab Hon. Secretary addressed the gathering..

E Health workshop: A Half day workshop on E Health was organized on 9-12-2017 at MJCET in collaboration with CAS Hyderabad and CAS Indonesia. Prof. Soegjiardo, Chapter Chair of CAS Indonesia, , and Mr. Fabian Hadiatna, Research Scholar from Indonesia presented lectures on e Health in this workshop.



Tech talk by Malaysian delegate: Dr. Fawnizu Azmadi Hussin, Associate Professor, University Technology Petronas, Malaysia gave a Talk on “Test & Reliability of Electronic Circuits: Overview and Case Study” at MJCET Conference Hall on 8th October, 2016.



A 3-day National workshop on “**Advances in Research and Innovations in Mechanical Engineering - ARIME 2017**”, was organized by department of Mechanical Engineering during 30th January to 1st February, 2017.





CSED organized various workshops on topics like HTML Design, XstreamHack, Game Development, Python Programming, Photoshop etc. A guest lecture on “Hacking and Counter Hacking – Recent Trends and Technologies” was conducted on 11th August 2017, by Mr. Srikanth Malladi, Associate Professor, Florida Southern College, USA.

Civil Engg Department organized a 2-Day National Workshop on “Smart Building Material & Technologies. **EIE** department organized a 1-Day workshop as part of Industry Institute Interaction Program, on Opto Electronic Instrumentation, by Mr. Sanjeev Reddy, Scientist, DRDL.

INNOVATIA PANOPLY

CSE Department in collaboration with IEEE CS and , and CSI Students chapter, conducted a one day event “INNOVATIA PANOPLY” on 15th April 2017. It was a mini project contest in which 3rd year students of CSED displayed their mini projects. Three best projects were awarded with cash .

ENVISAGE 2017

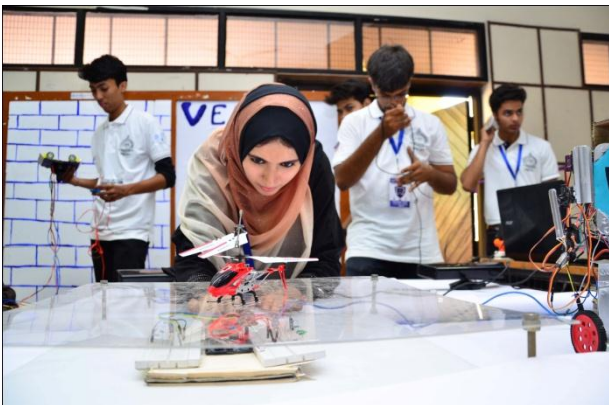
ITD in association with ACM Students Chapter conducted a mini project contest “Envisage 2017” on 13-Apr-2017. Three best projects from II & III year were judged based on innovative idea, implementation and presentation and given prizes and certificates.



RESEARCH & DEVELOPMENT AND CONSULTANCY

A Budget of Rs. 10.00 lakhs was allotted for in-house R & D projects in the year 2016-2017. There was an overwhelming response from students and faculty with the R & D cell receiving about 22 project proposals.

After review, 15 projects were approved for funding to the extent of Rs. 4.75 lakhs. Many of the sanctioned projects



are already complete and are being successfully demonstrated by students. Following is the partial list of projects sanctioned and approved for the year 2016-17

1) **Project Title: Quadcopter for navigation, imaging and surveillance (ECED)** -Sanctioned amount: Rs.37,709/-

2) **Project Title: Smart Mattress (ECED)**

Sanctioned amount: Rs.24,502/-

3) **Project Title: Voice controlled Prosthetic Arm for Physically disabled (ECED)**

Sanctioned amount: Rs.31,500/-

4) **Project Title: Design, fabrication and testing of aeration systems (CED)**

Sanctioned amount: Rs.58,000/-

5) **Project Title: Minimizing Power consumption in Image recognition by deep learning (CSED)**

Sanctioned amount: Rs. 18,319/-

6) **Project Title: Collision detection and prevention (CSED)**

Sanctioned amount: Rs.13,000/-

7) **Project Title: Design and Implementation of Humanoid with 20 degrees of freedom (ECED & MED)**

Sanctioned amount: Rs 49,450/-

8) **Project Title: IOT based Sustainable Plant Habitat and Smart Farming (ECED & ITD)**

Sanctioned amount: Rs.49,790 /-

9) **Project Title: SEGWAY: A self balancing vehicle (ECED & ITD)**

Sanctioned amount: Rs.47,000 /-

10) **Project Title: Smart Power saving kit for class and staffrooms (EED)**

Sanctioned amount: Rs. 11,300/-

11) **Project Title: Low cost data acquisition system for lab view (EED)**

Sanctioned amount: Rs.6,000 /-

12) **Project Title: Multipurpose E-CART (MED)**

Sanctioned amount: Rs.42,000 /-

13) **Project Title: Design and fabrication of a robotic arm controlled by Hand Gesture Movements (MED)**

Sanctioned amount: Rs.26,500 /-

14) **Project Title: Smart attendance monitoring system for college using wireless sensor network (ECED)-** Sanctioned amount: Rs.27,500/-



STUDENTS PROFESSIONAL CHAPTER ACTIVITIES

The Year 2016 was yet again vibrant with a host of professional student chapters organizing several events and participating in various national level events throughout India.



Robotics Club

The MJCET Robocon Team, comprising of 24 students from ECE/MECH and other departments participated at National level robotics contest ABU ROBOCON held at Pune in 1st week of March 2017. The Theme of the contest was **“Asobi : The Landing Disc”** The team built a Robot which could throw Frisbee disc at a particular target. Although the team did not win the award this year, the robots were indigenously built and were fully functional. The College Management was gracious to sponsor an amount of Rs. 2.5 Lakhs for designing and building the robots.

E-CELL: Muffakham Jah college of Engineering and Technology will participate in E Week competition which is scheduled to be held in September 2017. Normally this even is held in Februray and MJCET team wins couple of prizes in this contest, the same is expected this year also.

SAE INDIA: The SAE India MJCET Student Chapter teams participated in various National Events.

SAE SUPRA – 2017: The **SUPRA SAE INDIA 2016** event was scheduled from 4th – 9th July, 2016 at Buddh



International Racing Circuit, Noida. This is second time that the undergraduate students of MJCET have successfully fabricated a Formula type racing car. Team MJCET secured FIRST position in Telangana & A.P and overall ranked 51st out of 172 engineering colleges and universities including NIT's & IIT's.



The team “**FACLON RACERS**” of MJCET has participated in a **Gokarting** event held from 21st-24th March, 2017 at Torq03, Bangalore. The team endured successfully till Finals and achieved **All India 8th position** among 85 teams and received “**The Most professional team of ISK-2017**” award. The team FACLON RACERS was guided by Dr. A.S. Reddy, Professor, MED.



IEEE CS MJCET STUDENT CHAPTER:

The chapter conducted various events and guest lectures on: GRE PREP Talk, XTREAMHACK, HTML Design Workshop, TECHNITES, Effective CRM using Social Engagement and Machine Learning, Virtual Reality and Internet of Things etc.



EWB INDIA MJCET STUDENT CHAPTER :

EWB MJCET student activity centre which is built based on green building technology is inaugurated by Hon'y. Secretary, SUES Mr. Zafar Javeed and E-



ఇంజనీర్లకు సరిహద్దులు ఉండవు: కాల్టన్

బంజారాహిల్స్:

బంజారాహిల్స్లోని

ముఖకంజా ఇంజనీ

రింగ్ కళాశాల విద్యార్థుల

ఇంజనీర్స్ విత్

అవుట్ బార్డర్స్

చాఫర్స్ ఆధ్వర్యంలో

రెండ్రోజుల అంతర్జా

తీయ సదస్సు శుక్ర



ముఖకంజా కళాశాలలో ఎకో సిస్టమ్ సదస్సు

వారం ప్రారంభమైంది. టెక్నాలజీస్ ఫర్ సస్టైనబుల్ ఎకో సిస్టమ్ పేరుతో ఈ సదస్సును నిర్వహించారు. యూఎస్ఎల్లోని యూనివర్సిటీ ఆఫ్ కనెక్టికట్ ప్రతినిధి కాల్టన్ ఈ కార్యక్రమానికి విచ్చేశారు. ఇలాంటి సదస్సులు నిర్వహించడం వల్ల విద్యార్థులకు అంతర్జాతీయ జర్నల్స్ పైన, పరిశోధన, అభివృద్ధి అంశాలపైన అవగాహన కలుగుతుందన్నారు. జకీర్ అలీ మిస్సాహాద్లీన్ జునైల్, రోహన్ అహ్మద్, ఫసియుద్దీన్, సోహెల్ ఖాన్, ఖాలిద్, తదితర విద్యార్థుల బృందం ఈ సదస్సును ఏర్పాటు చేసింది. కళాశాలకు చెందిన విద్యార్థులు తాము రూపొందించిన పత్రాలను ఇక్కడ ప్రదర్శనకు ఉంచారు. వీటిని అంతర్జాతీయ జర్నల్స్లో ప్రచురిస్తామన్నారు. ఈ సదస్సులో ఫ్యాకల్టీ కో-ఆరినేటర్స్ ఇమ్రత్ ఎం మీర్జానూ, లక్ష్మీకుమారి పాల్గొన్నారు.

సాక్షి Sat, 25 March 2017
epaper.sakshi.com/c/17791861



learning centre on 11th January 2017, which will be a hub for "train the trainer" is inaugurated by Mr. Mahesh Patel, Global Engineering Manager, Pratt & Whitney and Mr. Bharat C Maharaj, Onsite Manager, Pratt & Whitney in coordination with Aerospace & Defence, Cyient Ltd., India and Belcan India Private Limited.

EWB – MJCET student chapter has conducted two day International conference on “Technologies for Sustainable Ecosystem – (TSE '17)” on 23rd and 24th March, 2017 at Student activity centre, Block-1, MED, MJCET. The inaugural session had a talk on sustainable technologies and need for maintaining our Ecosystem by Ms.Caltlin, University of Connecticut, USA.

CSI MJCET STUDENT CHAPTER:

Hackathon 2016 was organized in collaboration with IEEE and ECELL MJCET. This was a 12 hour event providing the students a platform to showcase their problem solving abilities. The other events were: Seminar on C and C++, Game Development, Python Programming, and Photoshop designing etc. It also organized one day “Girls Sports Day” for all girl students of MJCET on 29th Jan 2017.

ADSOPHOS - 2017

The Annual Student Technical Festival was organized on February 18th and 19th March 2017. All the Six Departments organized various technical events



during the two day festival. The highlight of the event was the Project Exhibition which was organized in the Ghulam Ahmed Hall where the students displayed their mini projects as well as the Robots and vehicles fabricated for various competitions.

IEEE STAC 2017 - A 2-Day STAC – 2017 was organized in the ECE Dept. on 18th & 19th March 2016. The theme of the 2-Day conference was “Awareness on Climate Change”. Mr. N.Venkatesh, Sr.Vice President, Redpine Signals and Secretary, IEEE Hyderabad Section was the Chief Guest and Mr. P.V.S. Maruthi Rao, CEO, Vidcentum R&D and Vice Chair, IEEE Hyderabad Section was the Guest of Honour for the programme. They enlightened the students and audience by highlighting the importance of having awareness on Climate Change.

Robotics Workshops at SUPS schools: The SUES sponsored an amount of Rs. 1,02,800/- for the conduct of Robotics workshop in all eight schools run by the society. The students of Robotics center visited the schools on 30 and 31 march 2017 and conducted the workshop. The robotics kits were distributed to students in the schools and it created a very good impact on the students.



Student Social Responsibility (SSR) – Robotics Workshop at TMRIES:

The Robotics Center has started the External Academia program in the year 2016, the aim and vision of this team is to spread the awareness and knowledge of basic elementary robotics to school students, which their regular curriculum could not provide. MJCET student teams offered an introductory three day workshop on robotics (three sundays / holidays) for 7th class students of the TMR schools in Hyderabad district. An award function to felicitate TMR School students was held on 25th march 2017, Mr. A. K. Khan, IPS, Vice chairman TMRIES, was the chief guest of this function. About 1000 students from eight TMR schools, 8 SUPS schools and SUJC participated and witnessed the interesting Robotics Models prepared by students of Robotics Center.

The Robotics Center team also visited 8 SUPS schools on 30th and 31st March 2017 and conducted Robotics Workshop. An amount of Rs 1.02 lakhs was sanctioned by MJCET for this workshop.



STUDENT ACHIEVEMENTS

- i. IEEE PES Students chapter EED, has been awarded with International Daryl Chong Silver Award for community oriented activities by chapter.
- ii. Ms. Sana Mujeeb, a student of 2012-2016 batch from ECED was awarded the “President Abdul Kalam Excellence Award” in the field of ECE by MESCO, Hyderabad on 15-10-2016. She received cash award of \$2000/- (Rs.1,31, 000/-) and a citation.



- iii. Two teams of 5 students each, from CSED and ITD participated in SMART INDIA HACKATHON 2017 Grand Finale as Team Outlier for Ministry of Road and Transport to provide a solution for Public Transport Facility as Team PALADINS, for Ministry of Law to provide solutions or E-Notary, held at Nagpur and Guntur, respectively on 1st – 2nd April 17.
- iv. 11 Students of B.E. EIE have published papers in International Conferences.
- v. Two final year ECE students, Mohammed Saif Khan and Saud Habeeb Mohammed Ba Aqeel attended the paper presentation contest "Convergence 2017" on 28-02-2017 at VNRJ Institute of Engg & Tech. and won the 1st prize in the technical paper presentation
- vi. Four students of ECE participated in ROBOSOCER event organized by IIIT Hyderabad on 28-01-2017 and won the Raspberry PI as the First Prize in the event.
- vii. Md. Abdul Khader Sufi and Syed Salman of ITD have secured first position in Group Discussions organized by IEEE WIE, MJCET.
- viii. Md. Abdul Khader Sufi and Syed Salman of ITD stood 2nd in Xtreme Hacakathon 2016.



POTPOURRI

Establishment of “K. A. Siddique Engineering Graphics Computer Lab”:

K.A. Siddiqui Graphics Computer Lab is setup in Civil Engineering Department for B.E Ist year students of all the branches of Engineering, since from the academic year 2016-17, the university has changed the engineering graphics subject from theory to lab using the AutoCAD Software. The Graphics lab is air conditioned, with 63 computers with Intel Core i3 processor, three motorized screens, overhead LCD projectors and printers.



Inauguration of Lift Facility in

Block 1: In accordance with AICTE Regulations to provide access to physically handicapped people to all parts of campus, a lift facility has been set up in block I.

Garden near Workshop Area: A new garden was inaugurated by Janab Khan Lateef Mohammed Khan Sahab, Chairman SUES, on ---- near Block II. This is a welcome addition to the already existing green cover in the campus aimed at reducing carbon footprint of the campus.

Student Activity Center: MJCET has created a dedicated facility of 120 capacity for conduct of student seminars and competitions on IV floor of Block I.

Guest Lectures: All the Department Organized Guest lectures by inviting prominent persons from reputed organizations like: GITAM, DRDL, Redpine Signals, Tech Mahindra, Suzlon India, IT eLEARN, Google, Microsoft Inc., IIIT-H, ISRO, IEEE, Infosys, UoH, IIT-H, U of Illinois etc.

Competitive Exams: 3 Students of Civil Engineering and 17 of ECE have qualified the GATE 2017 examination. About 25 students of ECE have qualified in GRE / TOEFL. CAT exam has been cleared by 2 ECE students.

VISIT OF DIGNITARIES

Vice Chancellor Osmania University

Prof. S. Ramachandram Garu, Vice Chancellor, Osmania University was the chief guest for Graduation Day 2016, held on 19-08-2016.

Chairman NASSCOM, and Founder & Chairman Cyient Ltd.

Dr. B. V. R. Mohan Reddy Garu, was the Chief Guest for Commencement Day 2016 on 04-08-2016

Chairman State Police Recruitment Board

Dr. J. Purnachandra Rao, IPS, was guest of honor for Graduation Day 2016.

Chairman TMRIES

Janab A. K. Khan Sahab, IPS was the chief guest for Award Function of Robotics Competitions held at TMR Schools on 25th March 2017

Prof. Soegjiardo, Chapter Chair of CAS Indonesia, Department of Electronic Health Systems through Integrated Educational Research and Community Service Activities, and **Mr. Fabian Hadiatna, Research Scholar from Indonesia** visited MJCET 9th Dec 2016.





SPORTS

EVENTS WON

Basket Ball (Girls)

- ✓ MVSR Inter Engineering Tournament [2nd to 4th March, 2017]

Lawn Tennis

- ✓ 9th Indian Open Inter Engineering Colleges Singles Tournament Organized by VNR – VJIT. [23rd March 2016]
- ✓ BITS Pilani National Engineering Tournament held @ Hyd [26-27 Jan 17]

Caroms (Boys)

- ✓ MVSR Inter Engg Doubles and Singles Tourn. From 2-4 mar 2017

Caroms (Girls)

- ✓ CVSR Inter Engg Single Tournament 6-8 Sept 2016
- ✓ MVSR Inter Engg Single & Double Tourn. 2-4 Mar 2017





Badminton (Girls)

- ✓ MVSR Inter Engg Singles , Doubles & Mix Doubles Tourn. 2-4 Mar 17

RUNNER UPS

Lawn Tennis

- ✓ O.U. Inter College Tournament org by MJCET [1st November, 2016]
- ✓ Bits Pilani National Inter Engg Tournament held from 1-4 march 2017
- ✓ Lawn Tennis Girls - OU Inter College Lawn Tennis Tournament held on 7-8 sep 2016
Organized by Bhavans Vivekananda College

Carom Teams

- ✓ OU Inter College Tourn. @ CBIT on 9-10 Sep 2017
- ✓ Bits Pilani National Inter Engg Tourn. @ Hyd from 26-29 jan 2017

Chess [Men]

- ✓ Bits Pilani Inter Engg National Tourn. @ hyd 26-29 Jan 17
- ✓ OU Inter College Chess Tourn. @ Aurora College on 22-23 Sep 2016

Volley Ball [Men]

- ✓ MVSR Inter Engg Tourn. From 2-4 Mar 2017 @ MVSR College

Tournaments Organized

- Department of Physical Education, MJCET has organized OU Inter College Football [Men] Tournament from 19th to 21st November, 2016 at O.U. grounds.
- Department of Physical Education MJCET has organized OU Inter College Lawn Tennis [Men] Tournament on 1st November, 2016 at Sanjeeva Park, Secunderabad.
- Games & Sports Department, MJCET has organized MJCET Girls Sports Fest (Exclusive for Girls) On 29th Jan 2017.



NATIONAL RANKING

For the year 2016, MJCET has been ranked at 65 out of 100 Top Government and Private Engineering Colleges in the country by the English National News Magazine 'Outlook'. The Week Magazine Ranked MJCET at 55th position among the Top 100 Pvt. Engg. colleges in India. MJCET is among the Top 5 Engg. Colleges in Hyderabad and Tops the list among Minority Engg. Colleges in the state.

ACKNOWLEDGEMENT

The Advisor cum Director, Principal, Deans and HODs are thankful to the Sultan-Ul-Uloom Education Society for its timely guidance during the last academic year. The contribution of faculty, staff and students in the academic success is acknowledged. We are also thankful to Print and Electronic Media for giving excellent coverage of activities and creating greater visibility of MJCET at State and National level.

M.J.C.E.T.

ANNUAL REPORT

2017-2018



MUFFAKHAM JAH

**College of Engineering and
Technology**

**ANNUAL REPORT
2018**

VISION

To be a part of universal human quest for development and progress by contributing high caliber, ethical and socially responsible engineers who meet the global challenge of building modern society in harmony with nature

MISSION

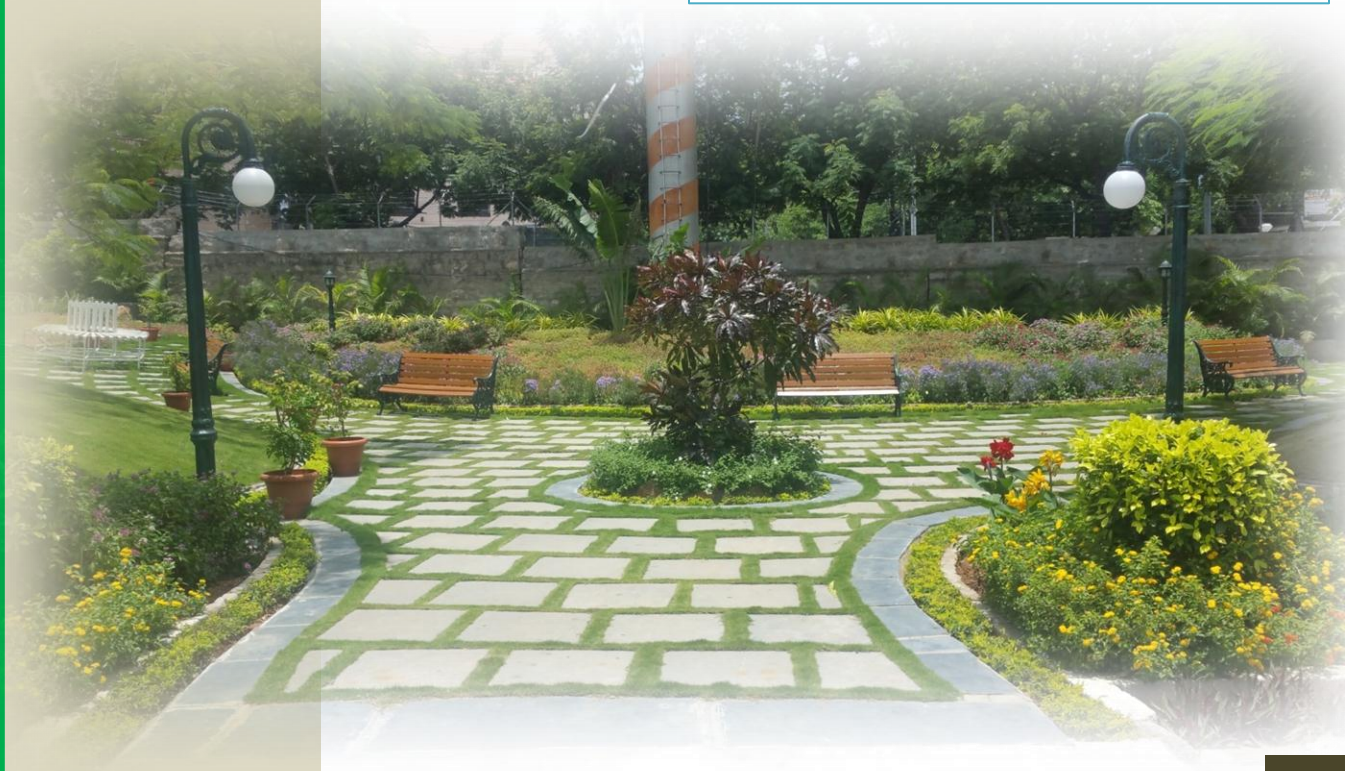
- To attain excellence in imparting technical education from the undergraduate through doctoral levels by adopting coherent and judiciously coordinated curricular and co-curricular programs
- To foster partnership with industry and Governmental agencies through collaborative research and consultancy
- To nurture and strengthen auxiliary soft skills for overall development and improved employability in a multi-cultural work space
- To develop scientific temper and spirit of enquiry in order to harness the latent innovative talents
- To develop constructive attitude in the students towards the task of nation building and empower them to become future leaders
- To nourish the entrepreneurial instincts of the students and hone their business acumen
- To involve the students and faculty in solving local community problems through economical and sustainable solutions.



Civil Engineering Students exhibit a solar city model to the Honorary Secretary, SUES, the Advisor Cum Director, MJCET and other visitors during ADSOPHOS-2018

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Governing Council Meeting in Progress



BLOCK – 2
CSE & IT Departments



BLOCK – 3
Civil, EE and Mech. Workshops & Labs.



BLOCK – 1
Civil, ECE, EE and Mechanical Depts.



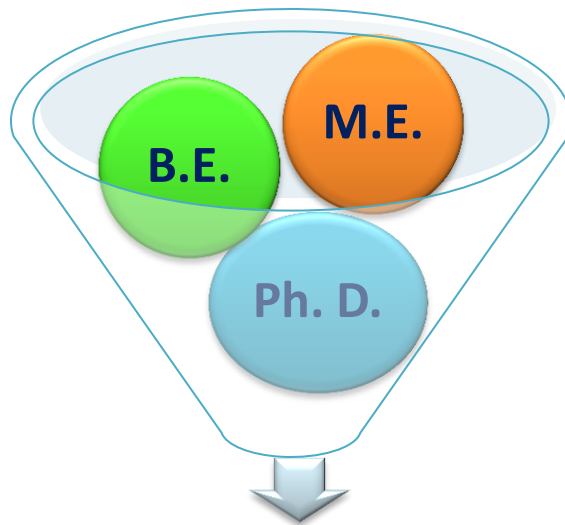
BLOCK – 4
Seminar Hall, Graphics
Computer Lab and Class Rooms



BLOCK – 5
Administration, Amenities, Library,
PG –section and CSE, ECE, IT class rooms

ADMINISTRATION

COLLEGE ADMINISTRATION	Advisor Cum Director	Dr. Basheer Ahmed
	Principal	Dr. K. Krishnan
	Dean, Academics	Prof. Ashfaqe Jafari
	Dean Administration and Student Affairs	Prof. Syed Ferhathullah Hussainy
	Registrar	Mr. K. V. Narsimha Rao
HODs	CED	Prof. Md. Hamraj
	CSED	Prof. A. A. Moiz Qyser
	EED	Prof. Haseeb Khan
	ECED	Prof. Md. Arifuddin Sohail
	ITD	Prof. Mousmi A. Chaurasia
	MED	Prof. N. Seetharamaiah
SECTION HEADS	Mathematics	Dr. Abdul Majeed
	Physics	Prof. M. A. Khadeer
	Chemistry	Prof. Y. Arun Kumar
	English	Dr. Nirmala Rita Nair
ASSOCIATE HEADS	CED	Mr. Shakeel Ayjaz
	CSED	Prof. Syed Shabbeer Ahmed
	EED	Dr. J. Namrata Manohar
	ECED	Mr. J. K. Nag
	ITD	Dr. Devasish Pal
	MED	Prof. Md. Viquar Mohiuddin
P.G. COORDINATORS	CAD/CAM	Prof. Shaik Khader Vali
	CSE	Prof. Uma Dulhare
	Digital Systems	Prof. Ayesha Naaz
	Power Electronic Systems	Mr. J. V. R. Vithal
	Structural Engineering	Prof. Md. Abdullah Sharieff
LIBRARY AND PLACEMENTS	Chief Librarian	Prof. B. Satyanarayana
	Director Placements Cell	Mr. Arun Chandra
	Placement Officer	Prof. S. M. Farooq Basha

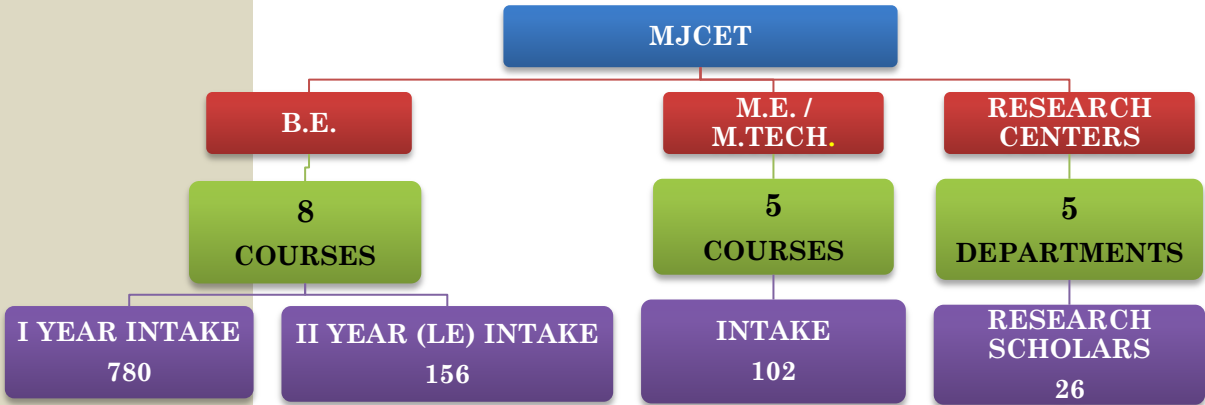


Total Students on Rolls
3507



Glimpses of Graduation Day - 2017





Intake of Courses Leading to B.E. Degree	
Civil Engineering	120
Computer Science and Engineering	120
Electrical and Electronics Engineering	60
Electronics and Communication Engineering	120
Electronics and Instrumentation Engineering	60
Information Technology	120
Mechanical Engineering	120
Production Engineering	60
Total intake in B.E. Courses	780

Intake of Courses Leading to M.E. / M. Tech. Degree	
CAD/CAM	18
Computer Science and Engineering	24
Digital Systems	24
Structural Engineering	18
Power Electronics and Systems	18
Total intake in M.E. / M. Tech. Degree	102

Research Centers	
Civil Engineering	
Computer Science & Engineering	
Electrical Engineering	
Electronics and Communication Engineering	
Mechanical Engineering	



Dr. Qamar Sultana, Assistant Professor, CED being felicitated by GC Chairman on acquiring Ph. D. degree



Dr. Umar Farooq, Associate Professor, CSED being felicitated by GC Chairman on acquiring Ph. D. degree

FACULTY

(1) F S R

New AICTE norms

1:20 for B.E.

1:12 for P.G.

To be implemented incrementally in OU affiliated Colleges

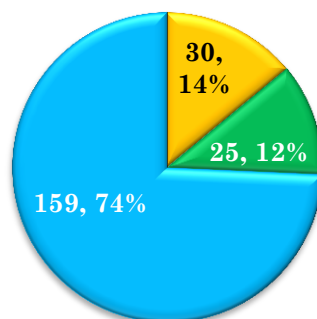
Department / Section	Sanctioned Posts	Available Faculty
B.E. Courses		
Civil Engineering	24	23
Computer Science & Engineering	24	24
Electrical and Electronics Engineering	12	12
Electronics and Communication Engg.	24	26
Information Technology	24	22
Electronics and Instrumentation Engg.	12	11
Mechanical Engineering	24	24
Production Engineering	12	11
I year	52	44
Total of B.E. courses	208	197
M.E. / M. Tech. Courses		
M.E. CAD/CAM	3	3
M.E. in Structural Engineering	3	3
M.E. in Digital Systems	4	4
M. Tech. in Computer Science	4	4
M.E. in Power Electronic Systems	3	3
Total of PG Courses	17	17
TOTAL OF B.E. AND P.G. COURSES	225	214 ⁽¹⁾

Cadre / Department	CE	CSE	EEE	ECE	EIE	IT	ME	PE	BS & H
Professors	6	4	2	4	1	2	5	2	4
Associate Professors	4	6	3	2	2	2	3	2	1
Assistant Professors	16	18	10	24	8	18	19	7	39

Faculty with Ph. D.
52
(23.5%)

Faculty Pursuing Ph. D.
71
(42.8%)

Cadre Distribution



■ Professors
■ Associate Professors
■ Assistant Professors

Publications

- ✓ Journals – 80
- ✓ Conferences – 73

Participation

- ✓ Seminars – 46
- ✓ Workshops/FDP-35

Award of Ph. D. Degree

Dr. Qamar Sultana, CED	Dr. Mohammed Ismail B, EED
Dr. Md. Mahmood Ali, CSED	Dr. Ishrath M. M., MED
Dr. Umar Farooq, CSED	Dr. Syed Amanullah H. , Math
Dr. G. Prasanna Kumar, MED	

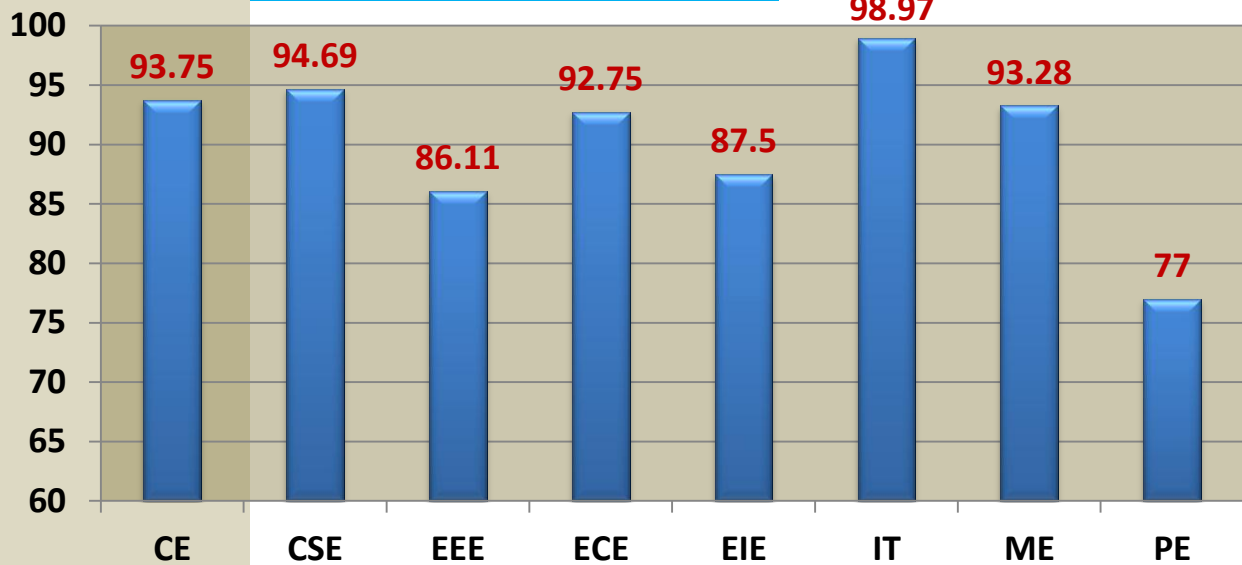


Glimpses of Graduation Day - 2017

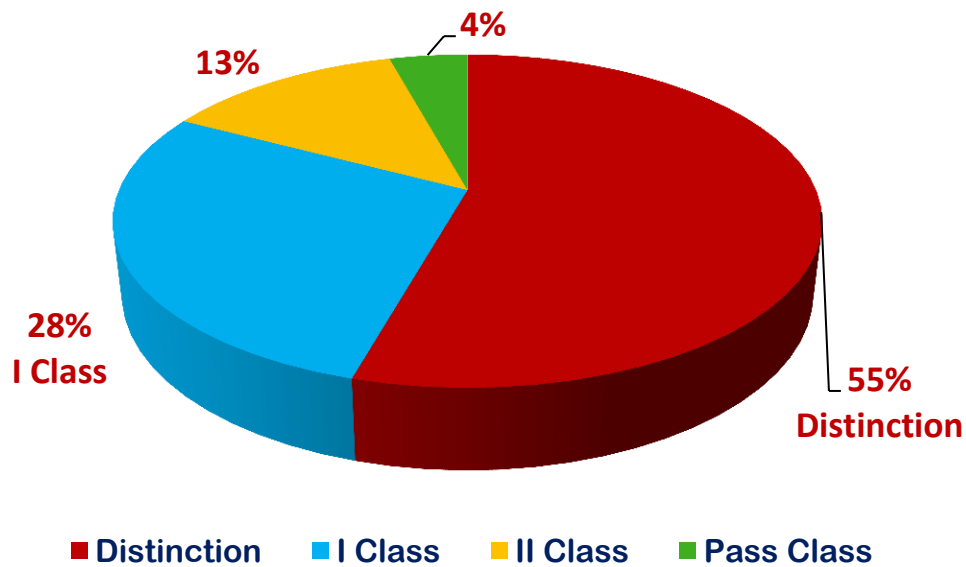


RESULTS

Academic Year 2016-2017



M.E. /
M. Tech.
Results
100%



OU Ranks - 2017

I Rank in
EEE
EIE
PROD

Course	No. of Ranks
Civil Engineering	5
EEE	2
ECE	3
EIE	6
IT	2
Mechanical Engineering	2
Production Engineering	1
TOTAL	21



Students placed in Amazon



Students placed in Cyient, Genpact and NTT Data



Students placed in Infosys

PLACEMENTS

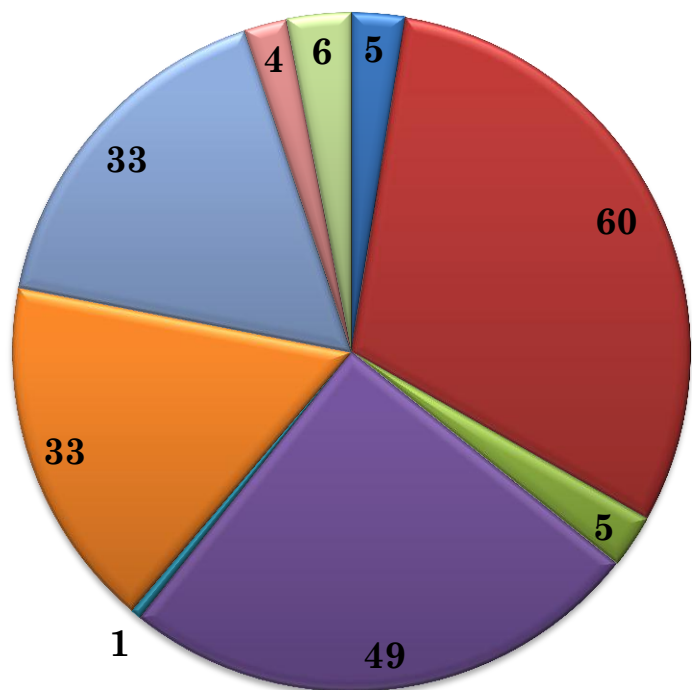
Company	# of offers
Infosys	68
Amazon (Customer Service)	59
Amazon (Alexa)	20
Genpact	16
Cyient	8
NTT Data	7
Xtream IT	6
Axness Technologies	6
Wipro Technologies	3
Multiplier Solutions	2
Service Now	1
Total	196

Highest Offer

Rs.10.92 Lakh / anum
(Service Now)

Average Offer

Rs. 2.66 Lakh / anum



■ CE ■ CSE ■ EEE ■ ECE ■ EIE ■ IT ■ ME ■ PE ■ PG

**TWO STUDENTS OF IT AND FOUR OF ECE PLACED IN CAPGEMINI
AS 'SAP CONSULTANTS' AFTER SUCCESSFUL GLOBAL
CERTIFICATION IN SAP - ABAP**



ACADEMIC ACTIVITIES

IT DEPARTMENT

Data Science Applications and Practices in R
One Week Short Term Training Program
13-12-2017 to 18-12-2017

Guest Lectures

Game Theory with Applications to Security
Autonomous Car
Applications of Fuzzy Logic

CSE DEPARTMENT

Big Data Analytics and Deep Learning
One Week Faculty Development Workshop
03-01-2018 to 08-01-2018

Guest Lectures

Big Data Analytics
IBM Cloud Essentials
Machine Learning using Azure ML Studio

EE DEPARTMENT

Electric Power Systems
Two-Week ISTE STTP
July 2017
(Organized in collaboration with IIT Kharagpur)

Hardware in the Loop Simulation for Smart Grid Application
Two-Week ISTE STTP
November 2017
(Organized in collaboration with NITTR Chandigarh)

ECE DEPARTMENT

IEEE CAS Membership Development Workshop on “IOT”
26-08-2017 to 28-08-2017
(Funded by IEEE CAS Headquarters)

IEEE Distinguished Lectures by eminent Professors

Prof. Alex P James, University of Kazakhstan
Prof. Mohammed Mustafa Hussain, KAUST, Saudi Arabia
Prof. Anthony A. Maciejewski, Colorado State university, USA

SUPRA - SAE
INDIA - 2017



GO-KARTING
(NKRC-2017)



MEGA - ATV
CHAMPIONSHIP
2018



ADSOPHOS - 2018



NEN TEAM OF E-WEEK 2018

STUDENT ACTIVITIES

MED SAE SUPRA 2017

SUPRA SAE INDIA

(National Engineering Student Formula Car Racing Competition)

Buddh International Circuit, Greater Noida

26-06-0217 to 01-07-2017

Students designed and fabricated a Formula Racing Vehicle and participated in the competition

MED GO-KARTING (NKRC-2017)

NATIONAL KART RACING CHAMPIONSHIP – 2017

(India's biggest Karting festival)

RPM circuit, Bhopal

29th September to 3rd October 2017

Students designed and fabricated Go-Kart vehicle and participated in the competition

MED Mega ATV Championship

MEGA ATV-2018

(National Racing Championship)

Nashik, Maharashtra

24th to 26th February 2018

Students designed and fabricated an All Terrain Vehicle and competed in the event to secure first position in Telangana State

ECELL

NATIONAL ENTREPRENEURSHIP NETWORK (NEN) E- WEEK 2018

10th February to 16th February 2018

MJCET won Two Awards

- ✓ NEN E-Leader of the Year Award
- ✓ E Week Star 1st Runner Up Award

IEEE

- ✓ IEEE-Robotics and Automation Society conducted a 2 Day IOT Workshop in October 2017
- ✓ IEEE CAS/EDS Hyderabad Chapter conducted a 1 Day workshop on VLSI Front End Design and Verification in March 2018
- ✓ IEEE-ICS Chapter conducted a 2 Day workshop on Android Application Development in September 2017
- ✓ IEEE-CIS organized tutorial talk on Applications of Fuzzy Logic using Matlab in August 2017 and a 1 Day workshop on Game Theory with applications to security in October 2017
- ✓ IEEE-PES conducted 3 Day workshop on Overhead Power Lines Safety in October 2017

MICROSOFT STUDENT SOCIETY

- ✓ Conducted a 1 Day workshop on Machine Learning using Azure ML Studio in February 2018

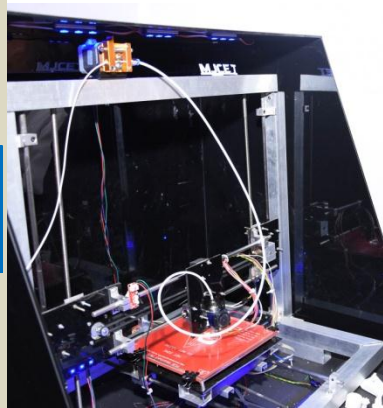
ANNUAL FEST

ADSOPHOS – 2018

10-11 February 2018

Technical events and Project Exhibition by all Departments

3-D Printer on display during ADSOHOS-2018



3-D Printer on display during ADSOHOS-2018

Display of Robots developed for ROBOCON – 2018 competition in Pune



A Robot offering Bouquet to the Chairman, SUES



COLLEGE IOT based sprinkler system



SEED FUNDING

Budget for in-house R & D Projects (2017-2018)	– Rs. 10 lakh
No. of Project Proposals received for funding	– 26
No. of Projects approved by R & D Committee	– 11
Amount sanctioned for the year 2017-2018	– Rs. 8.04 lakh

HIGHLIGHTS

Successfully designed and fabricated the following

- ✓ **IOT Based 3-D Printer**
- ✓ **Pneumatic Quadraped Robot**

- ✓ Strong emphasis on Multi-disciplinary Projects in area of ROBOTICS and other product developments in 2017-2018
- ✓ 5 Multi-disciplinary collaborative projects sanctioned between ECE, EE and MED
- ✓ IOT projects are being aggressively pursued by the students
- ✓ Collaboration between Engineering and Basic Science Department also observed – Civil and ECE students have collaborated with Physics Department

SANCTIONED PROJECTS 2017-2018

S. No.	Project Title	Departments	Amount Sanctioned (Rs.)
1	Pneumatic Quadraped Robot	ECED + MED	79,966
2	IoT based Smart 3D Printer	EED + ECED + MED	32,380
3	Humanoid Robot- Phase 2	ECED + MED	75,828
4	Security Patrolling Autonomous Robot	ECED	54,205
5	Automated Navigation System with Indoor Assistance for the Blind(ANISAB)	ITD	45,350
6	ISMART- Automated Classroom using IoT an initiative towards Thing Speak	CSED	45,880
7	Analysis of Air Pollution using a Quad copter	EED	48,800
8	Fabrication of oxide nano particles for gas sensor applications	ECED + Physics	30, 500
9	Effect of nano particles in thermal and mechanical properties of ordinary Portland cement	CED + Physics	22,000
10	Fabrication of electronic kit using spectrophotometric method to detect contaminants in Oils such as olive oil and vegetable oil	Physics	13,000
11	Smart Energy Auditing and validation of in-use state and stand-by state power consumption in EED, MJCET to optimize power consumption and suggest cost-effective and safety measures	EED	38,970

TMRIES Pilot Project
Phase – 2
Group photo with the
school students



3 – Day IOT
Workshop at
ITENAS University
Indonesia



Pneumatic
Quadruped
Robot



Pneumatic
Quadruped
Robot



Outreach Activities

KNOWLEDGE DISSEMINATION

Robotics Workshop for TMREIS Schools

- ✓ External Academia TMRIES Pilot Project Phase – 2 covering 42 TMRIES schools organized on 12th, 13th and 20th August 2017.
- ✓ 126 Students presented with awards in a ceremony on 29-08-2017.

BODHI School, Medak

2 – Day Elementary workshop on Robotics for school children

ITENAS University, Indonesia

3 – Day IOT Workshop organized from October 10 to 12, 2017

IEEE-CASS Networking Initiative

IEEE-CASS sponsored one-day IoT outreach program under ‘Techno-Meetup’ at University of Colombo, Sri Lanka

ANVESHANA – 2017

(AGASTYA International Foundation)

- ✓ ‘ANVESHANA’ is a Science and Engineering Fair structured around the concept of mentoring students from underprivileged Government or Government aided schools to design and build models or projects around identified social problems
- ✓ Three Mechanical, Two ECE Students along with two students from TMRIES school presented the Pneumatic Quadruped Robot at the event and won II prize of Rs. 25, 000

DRUSE

(DRDO Exposition)

- ✓ ‘The Pneumatic Quadruped Robot was selected in the DRDO Robotics and Unmanned Systems Exposition (DRUSE) during South Zonal competition at Bengaluru
- ✓ The National Level Competition is scheduled on 24th and 25th May, 2018 at DRDO, New Delhi.

MENTORING CHILDREN OF GOVERNMENT SCHOOL

POSTSCRIPT

NEN E-Leader of
the Year Award
presented to
Abdul Aziz Talib



ANVESHANA
2nd AND 4th Prize
Winners



SAP - ABAP Global
Certification



Prof. Arifuddin Sohel, ECED



Dr. Ishrath M. M., MED

STUDENT ACHIEVEMENTS

DRDO CONTEST

DRDO ROBOTICS & UNMANNED SYSTEMS EXPOSITION

DRDO Bangalore, 29-March, 2018

First Position in South Zone

Team of ECE and MED Students

To represent South India in Final Round at National Level at DRDO

New Delhi on 24-25 May 2018

NEN LEADER OF THE YEAR AWARD 2018

NEN E-LEADER OF THE YEAR AWARD – 2018

Cash award of Rs. 60, 000

Mr. Abdul Aziz Talib

ANVESHNA 2018

ANVESHANA – 2018

State Level Project Competition sponsored by AGASTYA

2nd Prize (Rs. 25, 000) won by Md. Faisal and Md. Abdul Aziz Siddiqui

4th Prize (Rs. 15, 000) won by Arifa Sultana, Nahid Fatima, Taiyyaba Farha, Arshad Ahmed, Ahmed Abdul Hafiz and Khaja Ilyas Pasha

HACKATHON

MJ – HACK – 2017

Organized by CSI Chapter

Sanjana Penmetsa, and Saathvika Yalavarth secured 3rd position and Khizir Rizwi secured 4th position

SAP ABAP GLOBAL CERTIFICATION

4 Students of ECE and 2 of ITD obtained Global Certification in SAP - ABAP and were placed in Capgemini as SAP consultants

GATE, CAT 2018

GATE RESULTS

4 students of Civil Engineering and 1 of ECE qualified in GATE 2018

CAT RESULTS

One Student of ECE qualified in CAT - 2018

FACULTY ACHIEVEMENTS

AWARDS

COMBIND SOCIETY FOR EDUCATIONAL RESEARCH & DEVELOPMENT (CSERD)

BEST WOMEN FACULTY AWARD 2018

Presented to

Dr. Ishrat Meera Mirzana, Associate Professor, MED

IEEE HYDERABAD SECTION SIGNIFICANT VOLUNTEER SERVICE AWARD 2017

Presented to

Dr. Mohammed Arifuddin Sohel, Professor, ECED

Engineer's Day and Science Day Celebrations



Envysage – 2018 and Innovatia Panoply-'18



**GRADUATION DAY – 2017
CHIEF GUEST
Dr. Shailendra Kumar Joshi
Chief Secretary, GoT**



**TMREIS AWARD FUNCTION
CHIEF GUEST
Mr. B. Shafiullah, Secretary, TMREIS**

CHIEF GUEST

**Mr. Jayesh Ranjan
Principal Secretary
for Industry &
Commerce and IT
Departments,
GoT**



Commencement Day – 2017 on the occasion of starting of new academic year

COMMEMORATIVE EVENTS

NATIONAL SCIENCE DAY - 2018

Celebrated on 28-02-2018

ENGINEER'S DAY - 2017

Celebrated on 15-09-2017

MINI PROJECT EXHIBITIONS

ENVISAGE - 2018

Organized by IT Department
(09-04-2018)

INNOVATIA PANOPLY - 2018

Organized by CSE Department
(07-04-2018)

GRADUATION DAY - 2017

GRADUATION DAY – 2017

03-04-2018

(For distribution of Provisional Certificates to the students of 2017 Batch)

CHIEF GUEST

Dr. Shailendra Kumar Joshi, IAS
Chief Secretary, Government of Telangana

COMMENCEMENT DAY - 2017

COMMENCEMENT DAY – 2017

29-07-2017

(For orientation of students admitted in I semester of AY 2017-18)

CHIEF GUEST

Mr. Javesh Ranjan
Principal Secretary, Industry & Commerce and IT Departments
Government of Telangana

TMREIS AWARD FUNCTION

EXTERNAL ACADEMIA MJCET ROBOTICS CLUB AND TMREIS AWARDS FUNCTION

29-08-2017

(For presenting awards to 126 TMREIS school students who excelled in the
Robotics Workshop)

CHIEF GUEST

Mr. B. Shafiullah
Secretary, TMREIS

OTHER VISITORS

- ✓ Prof. Alex P James, Chair, EED , University OF azakhstan visited MJCET on 01-07-2017
- ✓ Prof. Anthony A. Maciejewsk, Head, Department of Electrical and Computer Engineering, Colorado State University visited MJCET on 29-03-2018

The Medal Winners @ MVSR Inter Engineering Tournament & Reliance Youth Foundation Tournament



The winning Basketball Team



The winning Football Team



Winner of Bronze Medal in athletic event

100 m race



MJCET
Girls Sports Fest - 2018

GAMES & SPORTS

CHAMPIONSHIPS WON

Basket Ball Team (Boys)

MVSR Inter Engineering Tournament
[20 and 21 March, 2018]

Carroms Team (Boys)

MVSR Inter Engineering Tournament
[20 and 21 March 2018]

Carroms Team (Girls)

MVSR Inter Engineering Tournament
[20 and 21 March 2018]

Badminton (Girls)

MVSR Inter Engineering Tournament
[20 and 21 March, 2018]

RUNNER UPS

Lawn Tennis (Boys)

O.U. Inter College Tournament organized by Osmania
University [16th October 2017]

Basket Ball Team (Boys)

OU Inter College Tournament at Bhavans [27 & 28 Nov 2017]
St. Joseph Inter College Tournament [25 & 26 Nov 2017]

Football Team (Boys)

Reliance Youth Foundation Tournament, Loyola College
[12-17 November 2017]

Carroms Team (Boys)

OU Inter College Tournament, CBIT on 10-11 February 2018
BITS Pilani national Inter Engineering Tournament at
Hyderabad [20-21 March, 2018]

Badminton (Girls)

MVSR Inter Engineering Tournament
[20 and 21 March, 2018]

Chess (Boys)

BITS Pilani national Inter Engineering Tournament at
Hyderabad [20-21 March, 2018]

TOURNAMENTS ORGANIZED

Events organized by the Department of Physical Education, MJCET

Inter College Lawn Tennis (Men) Tournament
on 16th October 2017 at Indra Park, Secunderabad.

MJCET Girls Sports Fest

On 24th and 25th February 2018.



Inauguration of Student Activity Center, MED

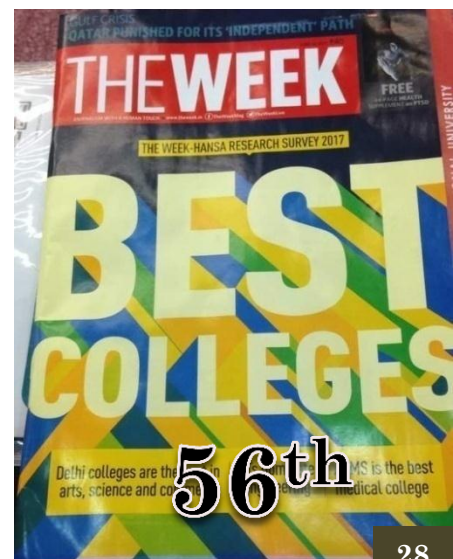
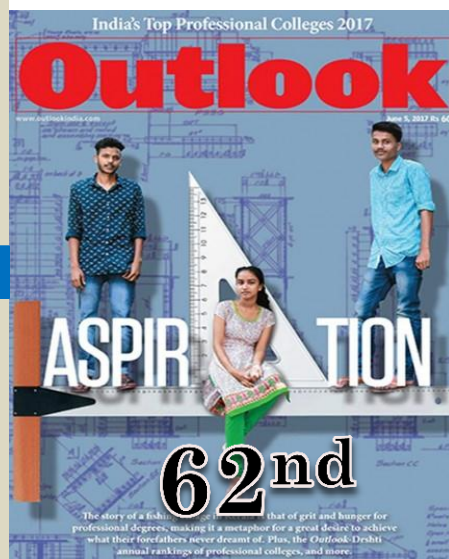
Inauguration of Concrete Laboratory in CED



Student Activity Center, CED and relaying of corridor flooring



RANKING



INFRA DEVELOPMENT

- ✓ 150 P4 Computers replaced with Core i3 (7th Generation) computers in CSE and IT Departments
- ✓ New Concrete Laboratory in CED for M.E. Students
- ✓ Remodeling of Metallurgy Lab in MED
- ✓ Establishment of Student Activity Center in CED and MED
- ✓ Relaying of corridor flooring in Block - 3

RANKING

**MJCET IN
TOP 151-200
BAND IN NIRF RANKING**



Ministry of Human Resource Development
Government of India

MJCET
Placed in the band of Top 151-200 Colleges in the Country

OUTLOOK

(National English Weekly Magazine)

62nd

Among Top 100 Government and Private Engineering Colleges in India

THE WEEK

(National English Weekly Magazine)

56th

Among top 100 Private Engineering Colleges in India

ACKNOWLEDGEMENT

The Advisor cum Director, Principal, Deans and HODs are thankful to the Sultan ul Uloom Education Society for its timely guidance during the last academic year. The contribution of faculty, staff and students in the academic success is acknowledged. We are also thankful to Print and Electronic Media for giving excellent coverage of activities and creating greater visibility of MJCET at State and National level

M.J.C.E.T.

ANNUAL REPORT

2018-2019



ANNUAL REPORT 2019

Student members of Robotic Center at work

MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

VISION

To be a part of universal human quest for development and progress by contributing high caliber, ethical and socially responsible engineers who meet the global challenge of building modern society in harmony with nature

MISSION

- To attain excellence in imparting technical education from the undergraduate through doctoral levels by adopting coherent and judiciously coordinated curricular and co-curricular programs
- To foster partnership with industry and Governmental agencies through collaborative research and consultancy
- To nurture and strengthen auxiliary soft skills for overall development and improved employability in a multi-cultural work space
- To develop scientific temper and spirit of enquiry in order to harness the latent innovative talents
- To develop constructive attitude in the students towards the task of nation building and empower them to become future leaders
- To nourish the entrepreneurial instincts of the students and hone their business acumen
- To involve the students and faculty in solving local community problems through economical and sustainable solutions.

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ADMINISTRATION

Advisor Cum Director

Dr. Basheer Ahmed

I/c. Principal

Prof. N. Seetharamaiah

Dean, Academics

Prof. Ashfaque Jafari

Dean Admin. & Student Affairs

Prof. Syed Ferhathullah Hussainy

Registrar

Mr. K. V. Narsimha Rao

Chief Librarian

Prof. B. Satyanarayana

Director Placements Cell

Mr. Arun Chandra

HODs

Civil Engineering

Prof. Md. Hamraj

Computer Science & Engineering

Prof. A. A. Moiz Qyser

Electrical Engineering

Prof. Mohammed Haseeb Khan

Electronics & Communication Engg.

Prof. Md. Arifuddin Sohel

Information Technology

Prof. Mousmi A. Chourasia

Mechanical Engineering

Prof. N. Seetharamaiah

Basic Sciences and Humanities

Dr. Abdul Majeed

Coordinators

Mathematics

Dr. Md. Abdul Rawoof Sayeed

Physics

Dr. Shaik Kareem Ahmed

Chemistry

Dr. V. Shanti

English

Dr. Shabana Tahniath

M.E. CAD/CAM

Prof. Shaik Khader Vali

M. Tech. CSE

Prof. Uma N Dulhare

M.E. Digital Systems

Prof. Nazia Parveen

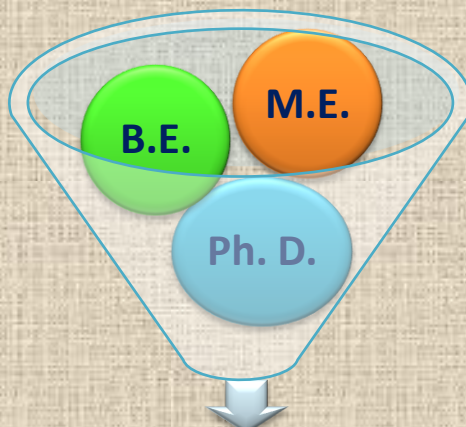
M.E. Power Electronic Systems

Mr. J. V. R. Vithal

M.E. Structural Engineering

Prof. Md. Abdullah Sharieff

COURSES AND INTAKE



Total Students on Rolls

3513

Sanctioned Intake

MJCET

B.E.

**8
COURSES**

I YEAR INTAKE

780

II YEAR (LE) INTAKE

156

CE	120
CSE	120
EEE	60
ECE	120
EIE	60
IT	120
ME	120
PE	60

**M.E. /
M.TECH.**

**5
COURSES**

INTAKE

102

CAD/CAM	18
CSE	24
DS	24
SE	18
PES	18

**RESEARCH
CENTERS**

**5
DEPARTMENTS**

**RESEARCH
SCHOLARS**

69

CE - 14
CSE - 08
EE - 08
ECE - 13
ME - 26

CE Civil Engineering
CSE Computer Science and Engineering
EEE Electrical and Electronics Engineering
ECE Electronics and Communication Engineering
EIE Electronics and Instrumentation Engineering
IT Information Technology

ME Mechanical Engineering
PE Production Engineering
DS Digital Systems
SE Structural Engineering
PES Power Electronic Systems
CAD/CAM Computer-aided Design and Computer- aided Manufacturing

FACULTY DETAILS

Civil Engineering Department

TOTAL	25
Professors	5
Associate Professors	4
Assistant Professors	16

Computer Science and Engineering Department

TOTAL	31
Professors	4
Associate Professors	6
Assistant Professors	21

Electrical Engineering Department

TOTAL	26
Professors	3
Associate Professors	5
Assistant Professors	18

Electronics and Communication Engineering Department

TOTAL	28
Professors	4
Associate Professors	2
Assistant Professors	22

Information Technology Department

TOTAL	22
Professors	2
Associate Professors	3
Assistant Professors	17

Mechanical Engineering Department

TOTAL	36
Professors	9
Associate Professors	4
Assistant Professors	23

Basic Sciences and Humanities + Engineering Graphics

TOTAL	29
Professors	0
Associate Professors	1
Assistant Professors	28




Total Faculty = 197

Faculty with Ph. D.
50
(25.5%)

Faculty Pursuing Ph. D.
86
(43.9%)

FACULTY DEVELOPMENT





Elite
NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
NAZEERUNNISA

for successfully completing the course
**Principles of Signal Estimation for MIMO/ OFDM
Wireless Communication**
with a consolidated score of **92 %**

Online Assignments	24.06/25	Proctored Exam	67.5/75
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Total number of candidates certified in this course: **94**

Jul-Oct 2018
(12 week course)

Prof. T. V. Prabhakar
Chairman
Center for Continuing Education, IITK

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL18EE21521381663

To validate and check scores: <http://npTEL.ac.in/noc>

Award of Ph. D. Degree

1. Dr. Rafi u Zaman, CSED
2. Dr. Hakeemuddin Ahmed, MED
3. Dr. Md. Imran, CSED
4. Dr. M. A. Rawoof Sayeed, Mathematics
5. Dr. D. Srinivas Rao, MED
6. Dr. Md. Sajid, EED

Publications

- Journals – 70
- Conferences – 49

Participation

- Seminars – 46
- Workshops / FDPs – 35



NPTEL is an acronym for 'National Programme on Technology Enhanced Learning' which is an initiative by seven Indian Institutes of Technology and Indian Institute of Science for creating course contents in engineering and science.

NPTEL web and video courses across 23 disciplines are available on their portal. Joining a course is free. There are no pre-requisites, no age limit, no entrance criteria to enroll.

Learning is done by watching videos and this is tested by the weekly assignments, that are to be submitted online within the prescribed deadline.

There is an optional proctored certification exam that the learner can take for a nominal fee at the end of the course to earn certificates from the IITs. 25% of the final marks comes from the Assignments and 75% from the final exam.

The main benefits of participating in an online course under NPTEL are:

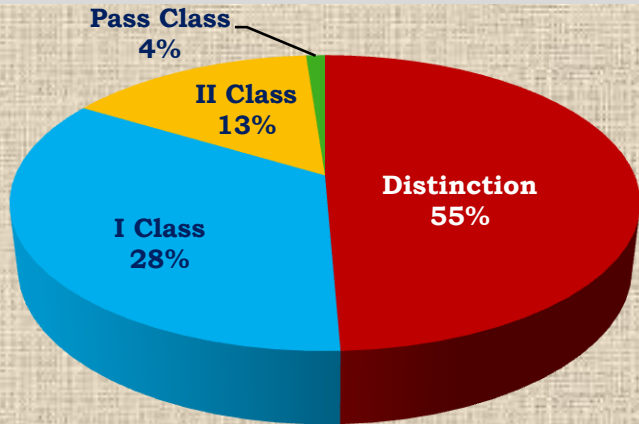
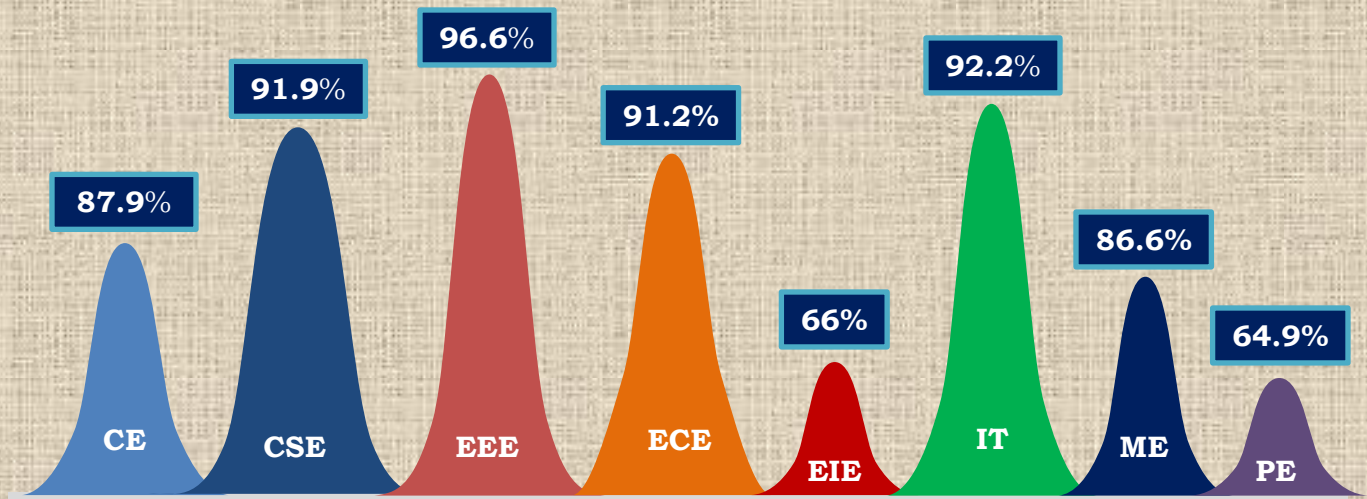
1. Students: credit transfer and better resume
2. Faculty: Refresher courses, AICTE recognized FDP courses

No. of faculty enrolled	140
No. of registration for certification	105
No. of faculty qualified so far	31
Gold	2
Silver	1
Elite grade	14
Pass grade	14

RESULTS AND RANKS

2017-2018

B.E. COURSES



■ Distinction ■ I Class ■ II Class ■ Pass Class



OU Ranks - 2018

I Rank in
CSED
ECED
IT
Production

M.E./M. Tech.
COURSES

100%
Result

Course	No. of Ranks	Ranks Secured
Civil Engineering	4	4, 6, 8, & 9
CSED	5	1, 2, 7, 8, & 9
EEE	2	4 & 9
ECED	5	1, 2, 4, 5, & 9
EIE	4	2, 3, 4, & 5
Information Technology	6	1, 3, 6, 7, 9, & 10
Mechanical Engineering	7	2, 3, 5, 6, 8, 9, & 10
Production Engineering	1	1
TOTAL	35	

PLACEMENTS 2018-19

Company	# of offers
Infosys	78
TCS	22
Value Labs	14
Amazon (Customer Service)	36
Wipro	09
Cognizant Technologies and NTT Data	07 + 07
Genpact	24
Xtream IT	05
Axness Technologies	12
Deloitte ITS Canada	01
PH Technologies and Acuvate	03 + 03
Service Now	03
HCL, Cyient, RAAM Group and Custom Furnish	01 + 04 + 02 + 04
Total	235

Highest Offer

Rs.10.92 Lakh / anum (Service Now)

Average Offer

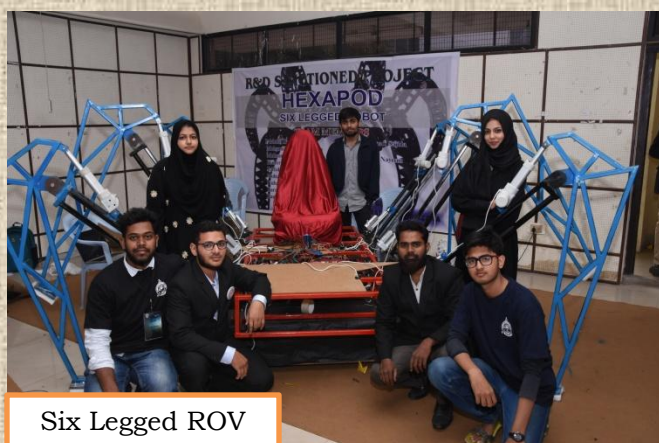
Rs. 3.75 Lakh / anum



R & D Projects

Budget for in-house R & D Projects (2018-2019)	Rs. 12 lakh
No. of Project Proposals received for funding	19
No. of Projects approved by R & D Committee	14
Amount sanctioned for the year 2018-2019	Rs. 10.11 lakh

S. No.	Project Title	Departments	Amount Sanctioned (Rs.)
1	Experimental Study of Effect of Fibre Density (I) and Flexural Performance(II)on Shear strength of RC Beams with externally bonded FRP Wraps	CED	1,00,000
2	Humanoid Robot Phase-3	ECED	1,00,000
3	IoT based vehicle parking system with cloud computing	EEED	20,000
4	Wall Climbing Robot for Surveillance with AI	ITD	31,050
5	Trebax Chess Board	ITD	23,700
6	Six Legged ROV	MED	1,19,000
7	Flexible Manufacturing System	MED	85,491
Multi-disciplinary Projects			
8	The Next Generation Band	ITD + MED	37,000
9	Wanderway - An improved Segway	MED + ECED	88,000
10	Synthesis and Characterization of Nano Magneto - rheological fluids for engineering applications	MED + Chemistry	50,000
11	Laser Engraver	MED + ECED	97,000
12	3-D Map Generating Autonomous BOT	MED + ITD	75,000
13	GIMMIC – A Semi-Humanoid Face Recognition Robot	ECED + MED	1,00,000
14	Biodiesel Extraction- Phase 5- Automation of Biodiesel Pilot Plant using Continuous flow process	Chemistry + MED + EED	45,000



Six Legged ROV



GIMMIC – Semi-humanoid

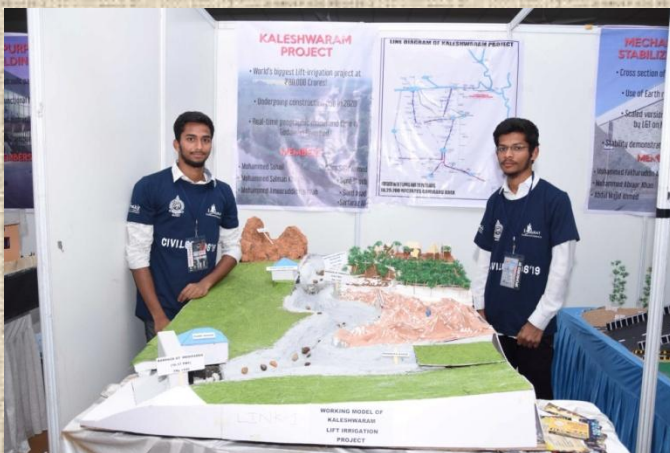
ENGINEERING PROJECTS EXPO ADSOPHOS-2019



Trebax Chess Board developed by IT Department students



Laser Engraver developed by MED and ECED students



Kaleshwaram Irrigation Project model fabricated by CED students



The next generation Band developed by ITD and MED students



IoT based vehicle parking system with cloud computing feature demonstrated by EED students



Indoor Automated Navigation Assistance System for the Blind developed by ITD students

ENGINEERING PROJECTS EXPO ADSOPHOS-2019



Automated Biodiesel Extraction process demonstrated by MED and EED students



UV absorption method for glass manufacture d by ECED students



Smart city model demonstrated by CED students



Xian Smog Tower for air purification demonstrated by CED students



Display of 'Great Urtuu' a 4-legged autonomous robot fabricated for ROBOCON contest and Improved Segway – an R & D Project

NEW INITIATIVES



SU Center for Innovation and Incubation (MJ Hub)

MJCET has established 'MJ Hub' in November 2018 aimed at shaping the innovation ecosystem in the campus and to encourage 'startup' culture.. An 'Ideation Contest' and 'Critical Design Thinking Workshop' were organized to create awareness about the newly established centre. Three startups, namely, Trindec Technologies, Infinzi Pvt. Ltd. And Ro-biotics were recently registered by the students



Unnat Bharat Abhyan

MJCET has been approved as a participating institute (PI) in UBA.

The Government of India has launched the UBA with a vision of transformational change in rural development by leveraging knowledge institutions to help build the architecture of an inclusive India. As part of the initiative, the college has adopted five villages in Sangareddy District. Village level survey has been completed and future work will be taken up after vacations.



NPTEL

MJCET has set up a local chapter of NPTEL with Prof. Mousmi Ajay Chaurasiya as the 'Single Point of Contact' of the local chapter. She was deputed to the one day workshop organized by IIT Madras in January 2019. The facility permits anyone to register and do an online certification course from NPTEL and get a certificate from IITs.

NEW INITIATIVES



B.E. I Semester Induction Program

AICTE has introduced a mandatory three week induction program for I semester students to help them to adjust and feel comfortable in the new environment, and bond with the other students and faculty. MJCET has conducted the induction program wherein the freshers were addressed by several other eminent personalities from industry, administrative services and academicians. Physical activity was also a part of the induction program.



R & D Projects / Products identified for filing of patent application

- i. MR fluid damper
- ii. MR fluid Clutch
- iii. Pneumatic Quadruped Robot
- iv. Bio-Diesel project
- v. KVAR STATCOM and
- vi. IoT based Smart 3D printer

PATENTS

MJCET has signed an MOU with a consulting firm, 'Prometheus Patent Services Pvt. Ltd.' to assist the faculty and students in documentation and filing of application for patenting their inventions. A seminar on IPR was conducted by the consultant on December 13, 2018 for creating awareness. The college has formed Patents and external funding committee to identify patentable inventions and streamline the process.

Recently the patent for Solar Powered Spinning Wheel has been published in the name of MJCET.

FACULTY ACHIEVEMENTS



Dr. Shaik Kareem Ahmed **Coordinator, Physics**

Reproduced the working model replica of 'Sir J C Bose Millimeter Wave Experiment'. The project was sponsored by IEEE in association with World Trade Center, Bangalore, on the occasion of the 160th anniversary of Sir Jagadish Chadra Bose on 17th February, 2019.

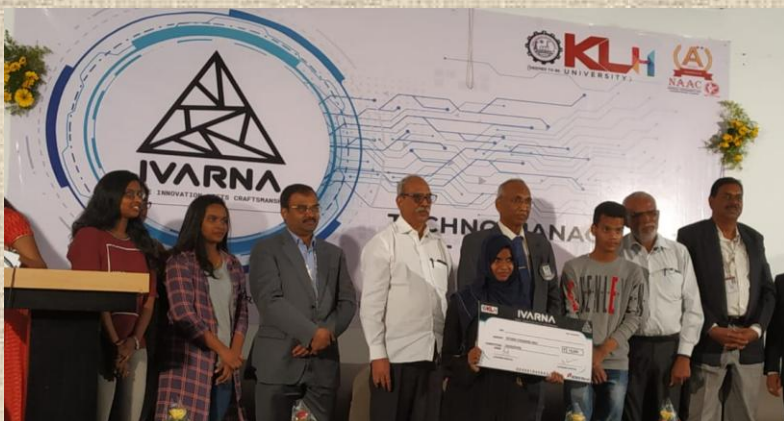


Prof. Mousmi Ajay **Chaurasia, Head, ITD**

Graduated from IEEE Volunteer Leadership Training Program (VoLT) conducted by IEEE headquarters, USA. She is one of the seventy participants selected globally from USA, London and Latin American countries to complete the program.

- ✓ **Prof. Mohammed Arifuddin Sohel Head, ECED**, served as Finance Chair for the 3-Day IEEE International Conference on 'Modeling of Systems Circuits and Devices' at IIIT Hyderabad in February 2019
- ✓ **Prof. Kaleem Fatima, ECED**, Co-chaired a tutorial session during the 3-Day IEEE International conference on 'Modeling of Systems Circuits and Devices' at IIIT Hyderabad in February 2019
- ✓ **Prof. Shaik Qadeer, EED** has published a patent titled 'Mileage Measurement and Fuel Forecast System with Fuel Tracking Provision and a Method Thereof'.

STUDENT ACHIEVEMENTS



24 Hour Hackathon at KLU, Hyderabad (March 2019)

Mr. Mohd Abdul Khader (ECE I year) and Ms. Varha Khan (CSE III Year) won First Prize (Rs 15000) for Project “ IoT based Smart Toilet Monitoring System’



‘Imagine Hack’ organized by Microsoft students’ Academy, MJCET

Mr. Hadi Ali and Mr. Md. Azeem, III Year IT students won Second Prize (Rs 6000) for Project “ Face recognition System using Python-Open CV’

Dublin university, ireland February 2019

3 Students from EEE and 2 from IE have been awarded “The Academic Excellence Award” by Education Matters associated with Dublin University Ireland

National Award for Students - 2018 Awarded by Institute for Steel Development and Growth for Civil Engineering Project

4 Students from CED participated and won the Zonal Round and Secured Consolation Prize in Final Round at National Level

ICFAI – Conference of Nations (25-27 Jan 2019)

Mr. Mohd. Abdul Khader, of ECE I year participated in the conference and won “Special Mention Award” in International Court of Justice

Anveshna 2019

Project Competition (January 2019)

Mr. Moghal Abdul Sameer Baig and Ms. Rizwana Tabassum of ECED demonstrated the project “Sluice Rivulet Ganga Bot” and secured consolation Prize.

Acumen ECE 2K19 – Project Expo (14-03-2019)

A six member team of II Year ECED students participated in Project Expo and won the First Prize for presenting their project work on “Smart Suitcase”.

GATE RESULTS

13 students of Civil Engineering and 1 of ECE qualified in GATE 2019

ACADEMIC ACTIVITIES



6-Days IEEE CIS Summer School on Computational Intelligence

IT Department in collaboration with IEEE CIS Hyderabad Section organized a 6-day summer school on Computational Intelligence during 22-27 November 2018. This program was sponsored by IEEE US Headquarters for USD 11000. Resource persons were drawn from foreign universities from USA, Canada, Australia, Italy, Slovenia, and Singapore.



2-Days Hands on Workshop on IoT and Drones

Sponsored by IEEE Standard Associate Bangalore and Organized by ECED
(03-04 October 2018)



ACADEMIC ACTIVITIES



Computer Science and Engineering Department

Conducted a One Week Faculty Development Program (FDP) on 'Data Science Technologies and Artificial Intelligence' during 03-08 January, 2019.



Electronics and Communication Engineering Department

Established 'Verification and Validation Laboratory for IoT' in February 2019. This lab was set up by IEEE Hyderabad Section for testing of IEEE 1451 standard on IoT



Electrical Engineering Department

Conducted a One Week ICT based Short Term Course on 'Machine Health Monitoring Using IOT' during March 25-29, 2019 in association with NITTTR, Chandigarh.

STUDENTS ACTIVITIES


**Microsoft Student Society
and CSED**

Organized a 9-hour Hackathon titled 'Imagine Hack – 2019' on 23-24 February, 2019. 43 teams registered for the event.

After two rounds of programming, three teams were declared winners.


**CSI Chapter in association
with XTremeIT**

Organized a 14-hour Hackathon titled 'Hack Revolution – 2019' on January 27, 2019. 40 teams registered for the event. About 150 students from various colleges participated in the event.


E-Cell MJCET

The E-Cell of MJCET was formed to promote entrepreneurial skills of the students by exposing them to the broad perspective through lectures, competitions and activities. It organized E-Week 2019 during Adsophos festival.

STUDENTS ACTIVITIES



SAE MJCET Chapter of MED

Organized an Engine Assembly workshop for the students of Mechanical and Production Engineering in February 2019.

Live demonstration of disassembling and reassembling of the IC engine for a first hand experience of real work applications.



EWB Chapter MJCET

Organized a conference on Technologies for Sustainable Ecosystem in March, 2019. Dr. Showkath Ali Mirza, Director, EWB India was the chief guest of the conference. The proceedings have been published in JETIR, a UGC recognized journal.

Miscellaneous Activities

- ✓ IEEE Students chapter organized a 1-Day workshop on '**Digital Image Processing using MATLAB**' in July 2018.
- ✓ IEEE CS chapter organized a 2 Day workshop on '**Machine Learning using Python**' in September 2018.
- ✓ IEEE PES chapter organized a seminar on '**Renewable Solar Energy and its Future**', in February 2019.
- ✓ A 2-Day training program on **HAM Radio** was organized by ECE Department in August 2018. A total of 151 participants attended the training.
- ✓ A four day **CODECAMP** was organized by CSI-MJCET chapter in September 2018. Software developers from XtremeIT conducted full day sessions for the participants.

EVENTS

**Academic Awards Function - 2018**

The Academic Awards Function – 2018 was organized on 29-08-2018 in order to give away Gold and Silver Medals to the top three students in each branch of B.E. and M.E. The chief guest Prof. E. Suresh Kumar, VC, EFLU, Hyderabad presented the gold medals.

**Orientation Program- 2018**

The event was organized on 31-07-2018 for the B.E. first year students after they had undergone a three week mandatory induction program. Mr. Navin Mittal, IAS, Commissioner Technical Education, Government of Telangana was the chief guest.

**Mini Project Exhibitions**

The CSE and IT Departments organized their annual mini project exhibitions in which students displayed their technical skills through projects. In 2019, Innovatia Panoply of CSED and Envisage of IT Department were held simultaneously on 30-03-2019

- Engineers Day 2018** was celebrated on **15-09-2018** by conducting technical talks and essay writing competition in all the Departments
- National Science Day 2018** was celebrated on **28-02-2019**. It was organized by the Basic Sciences and Humanities Department with Dr. Ch. Subrahmanyam of IIT Hyderabad as the Chief Guest

GAMES AND SPORTS



Championships Won

Chess Team (Boys)

Osmania University Inter College Chess Tournament
[25 and 26 Sep, 2018]

Carrom Team (Boys)

Singles and Doubles in State level Carrom Tournament
[16 and 17 September 2018]

Badminton (Girls)

MVSR Inter Engineering Singles and Doubles Tournament
[15 and 16 March, 2019]

Runners up

Lawn Tennis (Boys)

O.U. Inter College Tournament
[6 November 2018]

Football Team (Boys)

National Level Inter Engineering Football Tournament
[12-17 November 2018]

Volley Ball (Boys)

National Level Inter Engineering Volley Ball Tournament
[18-20 September, 2018]

Snooker

AIRO – 2019
[22-24 February, 2019]

Events Organized

OU Inter College Lawn Tennis (Men) Tournament

6th November 2018

MJCET Girls Sports Fest

3rd February 2019

INFRASTRUCTURE DEVELOPMENT

Installation of 2 Lifts in Block V (Capacity: 9 Persons, Weight: 612 Kg Each)

Expenditure: 36 Lakhs (Civil Works and Installation)
(Work in Progress)

MJCET Arch for Campus Demarcation

Expenditure: 5.62 Lakhs

Smart Classrooms (2 Nos, One each in ECED and ITD)

Expenditure: 10 Lakhs (Work in Progress)

Procurement of 85 Computers

(i3 8th Generation, 8GB RAM, 1TB HDD, 20 inch LED Monitors)

Expenditure: 27.88 Lakhs

Establishment of NPTEL Lab

(30 Users capacity Lab with Latest Configuration Computer Systems)

Expenditure: 6.69 Lakhs (Civil Works & Furniture) (Work in Progress)

Procurement of Two 75 Inch Smart Boards

Expenditure: 5.47 Lakhs

Renovation of Ladies Washrooms (Block I, Ground Floor)

Expenditure: 3.5 Lakhs

Procurement of 228 Computer Lab Chairs

Expenditure: 5.11 Lakhs

Plastering of MJCET Compound Wall

Expenditure: 2.58 Lakhs

National Ranking – 2018

OUTLOOK

62nd

Among Top 100 Government and Private Engineering Colleges in India

THE WEEK

56th

Among top 100 Private Engineering Colleges in India

Ranking of 2019 has not yet been released by the above publications

ACKNOWLEDGEMENT

The Advisor cum Director, I/C Principal, Deans and HODs are thankful to the Sultan ul Uloom Education Society for its timely guidance during the last academic year. The contribution of faculty, staff and students in the academic success is acknowledged. We are also thankful to Print and Electronic Media for giving excellent coverage of activities and creating greater visibility of MJCET at State and National level.



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