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INSTITUTE VISION

To be 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.

INSTITUTE MISSION

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

DEPARTMENT VISION

Fostering a bright technological future by enabling the students to function as leaders in software industry and serve as means of transformation to empower society through ITeS.

DEPARTMENT MISSION

To create an ambience of academic excellence through state of art infrastructure and learner-centric pedagogy leading to employability in multi-disciplinary fields.

PROGRAM EDUCATIONAL OBJECTIVES

1. Graduates will demonstrate technical competence and leadership in their chosen fields of employment by identifying, formulating, analyzing and creating efficient IT solutions.
2. Graduates will communicate effectively as individuals or team members and be successful in varied working environment.
3. Graduates will demonstrate lifelong learning through continuing education and professional development.
4. Graduates will be successful in providing viable and sustainable solutions within societal, professional, environmental and ethical context

PROGRAM OUTCOMES

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

DEPARTMENT ACTIVITIES

1. Engineers Day

The Department organized “52nd Engineers Day – 2019” on 18th September 2019. As part of this program, IT students drive through an awareness campaign on "Ban to the Plastic at MJCET".

The purpose of this campaign was to educate public about the adverse effects of single use plastic bags on the environment which depletes the natural resources, high costs in long run to clean up the litter and non-biodegradable products. The goal of this campaign was to encourage Reuse, Reduce and Recycle in the long run to achieve “Zero waste policy”.

Effects of this campaign:

- Public Awareness
- Adoption of 3R’s (reduce, reuse, recycle)
- Education about Anti-plastic issues



2. Expert Talk on Blockchain

IEEE CIS/GRSS Joint Chapter, Hyderabad Section in collaboration with IEEE MJCET SB organized an Expert talk on "Blockchain Technology: Applications & Career Opportunities" on 4th September 2019 by Mr. Dharmen Dhulla.



3. Inauguration of Smart Classroom

“Smart Classroom” of ITD was inaugurated on 24th Sept 2019 by Janab Zafar Javeed , Hony Secretary, SUES and in the presence of other Board of members.



4. NPTEL Annual Event

Department organized Annual event of NPTEL (MJCET local chapter) on 27th Nov 2019. Janab Zafar Javeed , Hony Secretary, SUES felicitated the Gold Medalist of various NPTEL courses in the event. In the year 2018-19, a total of 95 faculty and students have successfully completed the certification courses from MJCET. Dr. Mousmi Ajay Charasia, Head-ITD and chairman of NPTEL was awarded the active SPOC.

Dr. Basheer Ahmed, Advisor-cum-Director advised the faculty members to actively enroll in these online courses to keep themselves updated about the latest trends and subjects in their respective fields of engineering.



5. R & D Projects

ITD has proposed a total of 6 R& D projects for the year 2019-2020, out of which 3 were accepted.

FACULTY ACHIEVEMENTS

1. Mr. Ibrahim Khalilullah, Assistant prof. has passed the UGC NET exam.
2. Mr. Md. Afroze and Mr. M. A. Rasheed has received admission into the Ph. D. programme of GITAM University, Vizag.
3. Mr. Md. Abdul Wajid (Gold Medal), Mr. Md. Afroze (Silver Medal), Mr. Md. Asrar Ahmed (Two Gold Medals) and Ms. Hajera Begum (Gold Medal) were felicitated by Honorary Secretary, SUES in the NPTEL MJCET Annual event.

PAPERS PUBLISHED BY FACULTY

1. Metric to determine language complexity using dictionary Method percentage retrieval " with Volume-8 Issue-9 , July 2019 in International Journal of Innovative Technology and Exploring Engineering (IJITEE)
2. Mohammad Pasha, Khaleel Ur Rahman Khan (2019), "Vehicular Collision Avoidance at Intersection using V2I Communications for Road Safety", In Innovations in Computer Science and Engineering, Scopus Indexed LNNS Springer Series.
3. Mohammad Pasha, Khaleel Ur Rahman Khan (2019), "An Effective Congestion Control System for Vanets Using Multidimensional Data Clustering", In International Conference on Sustainable Communication Networks and Application, Springer Lecture Notes on Data Engineering and Communications Technologies.

WORKSHOP/CONFERENCE

PARTICIPATION BY FACULTY

1. Dr. Pal & Ms Gouri Patil attended workshop on "Cyber Security" at Dept of CSE, OU on 25 October 2019.
2. Dr. Devasish Pal, Associate Head, ITD, s nominated as the Chairperson of NSS Committee.
3. Following faculty members attended training session on Smart Board usage held on 28 November 2019 at SWAYAM Lab, MJCET
 - i. Ms. Fouzia Sayeedunissa
 - ii. Ms. Hajera Begum
 - iii. Mr. Arif Hussain
4. Following faculty members participated in the half day workshop on 30th November 2019 on "Learning Paradigms for Outcome Based Education in Digital Era" at MJCET Seminar Hall.
 - i. Dr. Mousmi Ajay Chaurasia
 - ii. Mr. Md. Afroze
 - iii. Mr. Arif Hussain
 - iv. Mr. Shaik Rasool
 - v. Mr. Riyazuddin
 - vi. Ms. Hajera Begum
 - vii. Ms. Farha Nausheen

STUDENT ACHIEVEMENTS

1. Mr. Shaik kalam (II/IV) secured first position in chess in inter college tournament for men held at VV College on 3rd Sept 2019.

2. Mr. Syed Mujtaba (IV/IV) participated in Technoxian championship, an international robotic league & world robotics championship held at New Delhi on 23-25 sept 2019.

3. Mr. Rahul Reddy (I/IV) participated in U-19 HCA tournament and was the highest wicket taker.



2. INQUISITION

The event was conducted on 26th Sept 2019 under ACM student chapter and was attended by 30 students. It was a 3 round event. The first two rounds were based on general quiz. The last round was a treasure hunt where the participants solved problems which were given as clues. The team who solved all the clues first was declared winner.

STUDENT ACTIVITIES

1. AI Chatbot Workshop

The workshop was conducted on 14th Sept 2019 under ACM student chapter and was attended by 60 students. It consisted of a 20 minutes brief up about Artificial Intelligence and chatbots. Participants were taught Chatbot building using Google's Dialogflow and by the end of the workshop all the participants had successfully developed a chatbot which could take Pizza orders and integrated it into Whatsapp messenger.



3. Old Age Home Visit

As part of social work, ACM students team visited the Fatima Old age situated in Falaknuma to spend time with the elderly on 31st October 2019. Snacks, surgical masks among other things were given to the old age home.



4. PolSAR Scattering Power Factorisation

IEEE student chapter organized a distinguished lecture on generic Scattering Power Factorisation framework for PolSAR data to directly obtain scattering power components using Geodesic component. The lecture was conducted on 15th Oct

and was taken by Prof. Alejandro C. Frery, Universidade Federal de Alagoas, Maceió, Brazil.



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MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
 INFORMATION TECHNOLOGY DEPARTMENT
 B.E. IV , VI & VIII Semester- ACADEMIC YEAR 2019-2020
 ACADEMIC CALENDAR

Sl. No.	Event / Activity	Scheduled Date
1	Pre-semester meeting	02-01-2020
2	Commencement of Class work	06-01-2020
3	Last Date of registration for Professional and Open Elective	10-01-2020
4	Republic Day	26-01-2020
5	Class Test I	24-02-2020 to 28-02-2020
6	Submission of attendance up to 22-02-2020	29-02-2020
7	Project Review 1	29-02-2020
8	Distribution of Corrected Scripts of Class Test I and Entry of Class Test I Marks in Assessment matrix.	02-03-2020 to 06-03-2020
9	Display of Attendance up to 22-02-2020	04-03-2020
10	Display of Class Test I Marks in Department Notice Board	07-03-2020
11	ADSOPHOS 2020	17-03-2020 to 18-03-2020
12	Feedback	19-03-2020 to 24-03-2020
13	Submission of attendance up to 21-03-2020	24-03-2020
14	Meeting / Counseling with parents of students having less than 65% of aggregate attendance up to 21-03-2020 and/or scoring less than 40% marks in Class Test I.	30-03-2020 to 04-04-2020
15	ENVISAGE 2020	04-04-2020
16	Project Review 2	08-04-2020 & 09-04-2020
17	Class Test II	13-04-2020 to 18-04-2020
18	Distribution of Corrected Scripts of Class Test II and Entry of marks in Assessment Matrix	15-04-2020 to 22-04-2020
19	Submission of Final Attendance up to 09-04-2020	16-04-2020
20	Last Date of Instructions	18-04-2020
21	Display of List of Detained Students	18-04-2020
22	Preparation Holidays and Practical Examinations	20-04-2020 to 02-05-2020
23	Display of Final Internal Assessment Marks and Attendance	23-04-2020
24	Intimation of Errors and Discrepancies in Sessional Marks by Students to HODs	23-04-2020 to 24-04-2020
25	Submission of Sessional (CIE) Marks to O.U. Examination Branch	25-04-2020
26	Updation of all departmental files as per allotted admin duties	29-04-2020
27	Submission of Course files and Registers	02-05-2020
28	Commencement of Theory Examinations	04-05-2020
29	Updation of CBCS assessment matrix* for 2017-18, 2018-19, 2019-20 of II, III, IV years	20-06-2020
30	Commencement of Next Academic Year	29-06-2020