MUFFAKHAM JAH COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF INFORMATION TECHNOLOGY

INFOVOGUE

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CONTENTS

INSTITUTIONAL VISION

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

INSTITUTIONAL MISSION

i. To attain excellence in imparting technical education from the undergraduate through doctorate levels by adopting coherent and judiciously coordinated curricular and co-curricular programs.

ii. To foster partnership with industry and government agencies through collaborative research and consultancy

iii. To nurture and strengthen auxiliary soft skills for overall development and improved employability in a multi-cultural work space

iv. To develop scientific temper and spirit of enquiry in order to harness the latent innovative talents

v. To develop constructive attitude in students towards the task of nation building and empower them to become future leaders

vi. To nourish the entrepreneurial instincts of the students and hone their business acumen.

vii. To involve the students and the faculty in solving local community problems through economical and sustainable solutions.

DEPARTMENT VISION

To create a ambiance of academics, excellence through state of art infrastructure and learner-centric pedagogy to employability in multi-disciplinary fields.

DEPARTMENT MISSION

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.

PROGRAMME EDUCATIONAL OBJECTIVES

i. Graduates will demonstrate technical competence and leadership in their chosen fields of employment by identifying, formulating, analyzing and creating efficient IT solutions.

ii. Graduates will be successful as software engineers, academicians, researchers, and administrators appropriate to their background, interest and education.

iii. Graduates will communicate effectively as individuals or team members and be successful in varied working environment.

iv. Graduates will demonstrate lifelong learning through continuing education and professional development

v. Graduates will be successful in providing viable and sustainable solutions within societal, professional, environmental and ethical context.

PROGRAMME OUTCOMES

i. Apply knowledge of computing, mathematics, science and IT engineering fundamentals for solution of complex problems.

ii. Analyze a problem, and identify and formulate the requirements appropriate to its solution.

iii. Design and implement a computer-based system, process, component, or program to meet the needs with appropriate consideration for public health and safety, cultural, societal and environmental. considerations.

iv. Use research - based knowledge and research methods to derive valid conclusions for complex problems.

v. Use current techniques and modern tools necessary for computing practice i.e. for presentation and report.

vi. Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional IT practice.

vii. Examine the impact of professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need of sustainable development.

viii. Understand professional, ethical, legal, security and social issues and responsibilities.

ix. Function effectively individually and on teams, including diverse and multidisciplinary, to accomplish a common goal.

x. Communicate effectively with a range of audiences in various formats.

xi. Recognize and engage in continuous professional development.

xii. An ability to understand engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.

BIG DATA

Big data is a broad term for data sets so large or complex that traditional data processing applications are inadequate. Challenges include analysis, capture, curation, search, sharing, storage, transfer, visualization, and information privacy. The term often refers simply to the use of predictive analytics or other certain advanced methods to extract value from data, and seldom to a particular size of data set.Analysis of data sets can find new correlations, to "spot business trends, prevent diseases, combat crime and so on." Scientists, practitioners of media and advertising and governments alike regularly meet difficulties with large data sets in areas including Internet search, finance and business informatics. Scientists encounter limitations in e-Science work, including meteorology, genomics, complex physics simulations, and biological and environmental research.

Data sets grow in size in part because they are increasingly being gathered by cheap and numerous information-sensing mobile devices, aerial (remote sensing), software logs, cameras, microphones, radio-frequency identification (RFID) readers, and wireless sensor networks. The world's technological per-capita capacity to store information has roughly doubled every 40 months since the 1980s; as of 2012, every day 2.5 exabytes (2.5×1018) of data were created; The challenge for large enterprises is determining who should own big data initiatives that straddle the entire organization.

Big data can be described by the following characteristics:

Volume – The quantity of data that is generated is very important in this context. It is the size of the data which determines the value and potential of the data under consideration and whether it can actually be considered Big Data or not.

Variety - The next aspect of Big Data is its variety. This means that the category to which Big Data belongs to is also a very essential fact that needs to be known by the data analysts. This helps the people, who are closely analyzing the data and are associated with it, to effectively use the data.

Velocity - The term 'velocity' in the context refers to the speed of generation of data or how fast the data is generated and processed to meet the demands and the challenges which lie ahead in the path of growth and development.

Variability - This refers to the inconsistency which can be shown by the data at times, thus hampering the process of being able to handle and manage the data effectively.

Veracity - The quality of the data being captured can vary greatly. Accuracy of analysis depends on the veracity of the source data.

Sayyada Hajera Begum
Assistant professor, ITD

DEPARTMENT ACTIVITIES

Short-term Training Conducted by the Department

1. A Two week ISTE Workshop on Computer Programming under the National Mission on Education through ICT (MHRD, Govt, of India) Physical participation at Remote center during 16th June – 21st June 2014, at MJCET. Conducted by IIT Bombay.

2. A Three Day National Workshop on "Big Data Analytics" from 15th – 17th December, 2014 In Association with IEEE Computational Intelligence Society Hyderabad Section organized by Department of Information Technology MJCET.

About 110 participants from various institutes attended the event. The Event featured Invited talks by experts from industry and academia like IBM, Infosys, IDRBT, University of Hyderabad, SAS Loadstone Learning. It also facilitated the participants with a Hands-On experience with latest tools on Big Data Analytics. The Valedictory Ceremony of the workshop was held on 17 Dec, 2014. Invited dignitaries were Prof. S. Sameen Fatima, Dean Informatics, OU as Chief Guest, Prof. Atul Negi, Chair IEEE CIS as Guest Of Honour, Prof. Dr. KaleemFatima, Branch Mentor IEEE, MJCET, Ms. Maniza Hijab Workshop Convener and Dr. Uma N. Dulhare Workshop Coordinator.

The workshop included the following lectures:
1. Prof. A.K Pujari from HCU- "what is so different about big data analytics".
2. Dr. Radha Krishna from Infosys - "NoSQL Databases".
3. Prof. Ravi from IDRBT - "BigData Analytics" and "Social Media Analytics".
4. CloudWick Technologies provided hands-on sessions on Hadoop.
5. Prof. C.R. Rao - "Roughest on BigData".
6. Mr. VivekSehgal from Lodestone Learning - "Advanced Analytics and Visual Analytics".
7. Dr. Rajeev Gupta from IBM Research - "Distributed execution of continuous Queries".
8. Prof. Sameen Fatima from Osmania University - "Text Mining

INDUSTRY-INSTITUTE INTERACTIONS

Department of IT has initiated Guest Lectures and Industry Institute Interaction in the academic curriculum which fills the gap between the industry and academia. These interactions are conducted as a part of the syllabus or as a part of content beyond syllabus which helps the students to understand the working of the industry. During the semester many such guest lectures and Industry Institute Interactions were conducted.

1. "Preparation for Programming Interview" by speaker Mr. Mohammed Ateeq, Programme Manager, Microsoft, Redmond Washington, USA.
2. "Information Security – Current Scenario" on 22nd Aug 2014 by Dr. K. Srinathan Asst. Prof. IIIT Hyd and Next Generation Information and Communication Technologies: Trends and Innovation by Dr. P. Radhakrishna Principal Research Scientist, Infosys Labs, Infosys- Hyd and Software Development Paradigm: Analysis, Design and construction with documentation of Software Project" by Dr. Salman Abdul Moiz Associate Professor – SCIS, UoH on 23rd Aug 2014.
3. Machine Learning was conducted on 10th September 2014 by Xtream IT People Inc.
4. "Next Generation Information & Communication Technologies: Trends and Innovation" was conducted on 22nd August 2014 by Dr. P. Radhakrishna, Principal Research Scientist, Infosys Labs, Infosys-Hyd.
5. "Software Development Paradigm: Analysis, Design and Construction with documentation of Software Project" was conducted on 23rd August 2014 by Dr. Salman Abdul Moiz, Associate Professor, SCIS, UoH-Hyd.
6. "Next Web Development" was conducted on 2nd August 2014 by Mr. Owais Siddiqui, Software Engineer, Deloitte.
7. Interactive Session under CIS, IEEE MJCET was conducted for the students on 29th September 2014 by Ms. Kulsum Fatima, Alumna MJCET.

FACULTY ACHIVEMENTS

Alumni addressing the students

Paper Publications

1. Dr. Uma N. Dulhare Published a research paper on "Extraction of High Utility Rare Item Sets from Transactional Databases", ICCCT2014, 11th - 13th Dec 2014, sponsored by IEEE "Enhancing Engineering Education in an Indian Education System: WebBlocks", published in IJCSIT, Sept .2014

2. N Md Jubair Basha "Component Based Software Engineering- A Specialized Paradigm of Software Development", published in 6th National Conference on Information and Software Engineering (NCISE 2014) held during 18-19 Dec 2014 at AVIT, Chennai. ISBN: 978-93-81208-43-4.

3. N Md Jubair Basha, Humera Sabhia, Md Abdul Rawoof "An Approach to generate Reusable design from legacy components and Reuse Levels of different environments",
published in International Journal of Current Enginering and Technology (IJCET) Vol.4, No.6 (Dec 2014) pp 4234-4237. E-ISSN 2277 – 4106, P-ISSN 2347 – 5161

4. Mohammad Pasha et al "An Information Engineering Approach for Developing Future Ready Intelligent Transport Sytems" Proceedings of the 6th NCISE2014, Chennai; ISBN 978-93-81208-43-4(December).

5. Mr. Mohd Pasha Published a research paper in National Conference on Information and Software Engineering 2014 in "An Information Engineering Approach for Development Future- Ready Intelligent Transport Systems" held on 18th& 19th December, 2014.

6. Mr. Md.Riyazuddin, Syed Azar Ali Published a research paper on "Challenges and Security Issues in Big Data-A Survey" in International Journal of Engineering and Management Research ISSN No.: 2250-0758in Dec 2014.

Ph.D Registered in 2014-2015
1. Mrs. Afshan Kaleem, Sr. Assistant Professor, has enrolled in Ph.D from JNTU Kakinada in Department of Electronics Communication Engineering,.
2. Mrs. G. Vani, Assistant Professor has enrolled in Ph.D from Acharya Nagarjuna University (ANU) Guntur in Department of Computer Science Engineering.

Workshop Participations
1. Mrs. Maniza Hijab has attended a 2 –Day Workshop on Area of Interest, Guide Students, Get Hands on Training at JNTUH College of Engineering, Hyderabad on 30th July, 2014.
2. The following faculty members have participated in the Two Week Workshop on ISTE on "Computer Programming on May 20 – 21st June, 2014, at MJCET.
    i.   Mrs. Maniza Hijab
    ii.   Mrs. Fouzia Sayeedunnisa
    iii. Mr. N. Md. Jubair Basha
    iv.   Mrs. G. Vani
    v.   Mr. Arif Hussain
    vi.   Ms. Alefiah Mubeen
    vii. Mr. Syed Azar Ali
    viii. Mr. Riyazuddin
3. The following faculty members have participated in Two- Week ISTE Workshop on Computer Networking conducted by Indian Institute of Technology Bombay from May 28th, 2014 to July 5th, 2014.
    i.   Mrs. Asia Sultana
    ii.   Mrs. Farha Nousheen
    iii. Mrs. Sayyada Hajera Begum
    iv.   Mr. Ibrahim Khalilullah
    v.   Mr. MDV. Prasad
    vi.   Mr. M. A. Rasheed
    vii. Mr. Mohd Pasha
4. All the faculty members have participated in 3-Day Workshop on "Big Data Analytics" Conducted by IT Dept MJCET, Hyderabad held on 15th -17th Dec, 2014.

5. The following faculty members have participated in One day Workshop on how to publish a technical paper with IEEE" held on 14th Aug 2014 at University of Hyderabad.
    i.   Mr. Syed Azar Ali
    ii.   Ms. Alefiah Mubeen
    iii. Mr. Arif Hussain
6. Mr. N. Md. Jubair Basha participated in 2- day workshop on Cyber Security held on 13th – 14th Sept, 2014 conducted by IEEE Hyderabad Section.
7. Mr.N.Md. Jubair Basha participated in a 1-day workshop in Complimentary Seminar on MATLAB & Simulink for Engineering Education on 11th Aug, 2014.

Awards/Prizes/Achievements
1. Dr. Uma N Dulhare officiated as the Conference Chair for the International Congress 2014 held at Bangkok, Thailand from 19th – 21st November, 2014.

STUDENTS ACHIEVEMENTS
Academic Achievements

Roll No.	Name	Univ Rank
1604-10-737-078	Ms. Lubna Masood	III
1604-10-737-065	Ms. Sheik Reshma	VIII
1604-10-737-003	Ms. Husna Kauser	IX

Technical Achievements

1. The following students have attended "Microsoft Student Associates Program" held at Microsoft Corporation (India) Pvt. Ltd, for the year 2014.
    Mohammed Khaja Moinuddin- B.E III/IV
    Mohammed Azhar- B.E III/IV
    Mohammed Ishtiaq Ahmed- B.E III/IV
    Syed Abdul Kalam- B.E III/IV
    Mohammed Ziauddin Siddiqui- B.E III/IV
    Mohammed Zeeshan Khan Saif- B.E III/IV

2. Mr. Rameez Nizam of B.E III/IV has assigned to do a project on "A Generalized Flow Based Method for Analysis of Implicit Relationship on Wikipedia" in Computer Education Division, ECIL for a period of One month as a part of partial fulfillment for the award of the Engineering Degree Certificate.
3. Ms. Maheen Ahmed of BE IV/IV was appreciated and was presented a memento by robotics center, MJCET for working diligently as the marketing head of the robotics center, MJCET.
4. Mohammed Faheem, Lubna Nishath & Sindhu Reddy of B.E III/IV participated in India business challenge conducted by Deloitte & were among top 8 of Hyderabad region.
5. Mohammed Faheemuddin Rizwan of BE III/IV was the ambassador at IEEE day 2014.

Sports Achievements

1. Ms. M. Menitha of B.E I/IV Represented MJCET for Osmania University Inter College Athletics Championship for Men & Women in Triple Jump and Won III Prize in 2014-15.
2. Ms. M. Menitha of B.E I/IV Represented MJCET for Osmania University Inter College Athletics Championship for Men & Women in 100mts Hurdles and Won III Prize in 2014-15.
3. Mohammed Iliyaz of B.E IV/IV was Runner up for the Tennis tournament held at OU in 2014

STUDENT ACTIVITIES

Wall of fame

The Internal Quality Assurance Committee (IQAC) of Information Technology works towards the progress of the department. As a part of progress, the committee decided to organize "Wall of Fame" program from the academic year 2014-2015. Under this program the best and successful alumni of the department are identified and are invited to motivate the present young minds to improve their academics and placements. The program was organized on 14-08-2014 and included the following invited alumni:

1. Mr. Moazam Munawaruddin, Sr Associate, Wipro Technologies, Hyderabad
2. Mr. Khizer Daniyal Syed, Ph.D Student, University of Arkansas at Little Rock, US

The speakers shared their experiences in the industry with the students and highlighted about the importance of punctuality, hardworking and sincerity in their academics. Students were stressed on the importance of career building and excellence in core subjects. They motivated students towards maintaining their attendance and zero backlogs. This was followed by an interaction session where various doubts raised during the event were clarified. This program provided students with a platform to interact with the industry professionals and understand how and what factors are essential in guaranteeing their place in it.

Enquesta 2.0

After the extraordinary success of its pioneer attempt, the student branch Chapter of IEEE MJCET, Computational Intelligence Society yet again conducted the event "ENQUESTA2.0" on the 15th,

16th and 17th October, 2014. The event comprised of two rounds the first being a 'Just a Minute' round and the second a 'Quiz' round. It was organized for the students of first year of all the departments. The main motive of this event was to help freshmen to acclimate to college environment. Over a 100 students from all the departments participated in the event.

IEEEMembership Drive Week

Resume Display
Students were briefed about the motive behind conducting the drive. A presentation demonstrating the format of a resume was given to the students. A few resumes of the senior IEEE members highlighting their achievements with IEEE and the activities they were involved in were also included in the presentation. The presentation continued focusing on the development of soft skills through the events and programs that an IEEE member can attend and the online resources that a member can have access to which may in turn be essential in their academics and projects.

Scrapbook display and video presentation
A scrapbook capturing all the important moments and achievements of IEEE MJCET Student Branch was made by a team of creative members from the chapter and its display was set up in the corridor with the video running in the background. The main motto behind this setup was to grab the attention of students as a picture speaks more than a thousand words. This display encouraged senior junior interaction.

CAMPUS PLACEMENTS

Organizations	2014-15
Infosys	15
Wipro	06
HSBC	04
I Gate	03
CSC	05
Total Job offers	**33**

ANNOUNCEMENTS

Upcoming Events
- Guest lectures on latest trends
- Programming Languages workshop for Final years
- Technical Events
- Fun Events
- Industry Institute Interaction Programs for academic subjects

Call for articles

Call for articles for the next issue of INFOVOGUE Newsletter theme –Outcome-Based education.
Interested students and faculties can submit the articles on this theme. The article should not exceed 300 words and relevant to the newsletter theme of the issue. The editorial committee will scrutinize and publish the high quality articles in the next issue.

EDITORIAL BOARD
Chief Editor
Maniza Hijab, Assoc. Professor & Head, ITD

Editorial Committee
Hajera Begum, Asst. Professor, ITD
N Md Jubair Basha, Asst. Professor, ITD
Saadiya Khalid(4/4 IT)
Waseem Saudagar(4/4 IT)

B.E. II, III and IV YEAR II Semester– ACADEMIC CALENDAR 2014-15

Sl. No.	Event / Activity	Scheduled Date
1	Commencement of Class work	05-01-2015
2	Manual submission of attendance up to 31-01-2015	02-02-2015
3	Meeting / Counseling with parents of students having less than 65% of aggregate attendance up to 31-01-2015	05-02-2015 to 07-02-2015
4	ADSOPHOS – Student Technical Festival	15-02-2015 to 16-02-2015
5	I Feedback	19-02-2015 to 24-02-2015
6	Class Test I	26-02-2015 to 28-02-2015
7	Distribution of Corrected Scripts of Class Test I and Online Entry of Class Test I Marks in Assessment matrix	09-03-2015 to 11-03-2015
8	Submission of monthly attendance up to 07-03-2015	10-03-215
9	Display of I Internal Marks and monthly attendance up to 07-03-2015	13-03-2015
10	Issue of Progress Report, Meeting / counseling with parents of students having less than 65% of aggregate attendance up to **07-03-2015**and/or scoring less than 40% marks in Class Test I	16-03-2015 to 20-03-2015
11	II Feedback	15-04-2015 to 18-02-2015
12	Class Test II	20-04-2015 to 22-04-2015
13	Display of aggregate attendance up to 18-04-2015	20-04-2015
14	Meeting with parents of students having less than 65% of aggregate attendance up to 18-04-2015	21-04-2015 to 23-04-2015
15	Distribution of Corrected Scripts of Class Test II and Online Entry of marks	23-04-2015 to 25-04-15
16	Last Date of Instruction	25-04-2015
17	Display of Class Test II Marks, Final Attendance and Detention List	27-04-2015
18	Practical Examination	27-04-2015 to 09-05-2015
19	Intimation of Errors and Discrepancies by Students to HODs	30-04-2015
20	On line entry of Final Sessional Marks and Attendance on OU Portal	30-04-2015-02-05-2015
21	Commencement of Theory Examinations	11-05-2015

Note: This academic calendar is only for II, III, IV Year II-Sem.