MUFFAKHAM JAH COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF INFORMATION TECHNOLOGY

INFOVOGUE

Month & Year: DEC, 2013 A Semi Annual Newsletter Volume: V Issue:I

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. To equip the students with a broad foundation on the basic as well as advanced engineering concepts and fundamentals of Information Technology.

ii. To enable our graduates to practice as successful computing professionals for the advancement of society.

iii. To promote professionalism in computing practice.

iv. To inculcate in the students the importance of continuous learning.

v. To apply the knowledge and skills from a broad education in order to understand the impact of computational solutions in a global, societal, and environmental context consistent with the principles of sustainable development.

PROGRAMME OUTCOMES

i. An ability to apply knowledge of computing and mathematics appropriate to the discipline.

ii. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.

iii. An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs.

iv. An ability to function effectively on teams to accomplish a common goal.

v. An understanding of professional, ethical, legal, security and social issues and responsibilities.

vi. An ability to communicate effectively with a range of audiences.

vii. An ability to analyze the local and global impact of computing on individuals, organizations, and society.

viii. Recognition of the need for and an ability to engage in continuing professional development.

ix. An ability to use current techniques, skills, and tools necessary for computing practice.

x. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.

xi. An ability to apply design and development principles in the construction of software systems of varying complexity.

DEPARTMENTAL ACTIVITIES

Conduct of departmental advisory board meeting under NBA process

The 1st DAB Meeting of Information Technology Department was held on 30-11-2013 in Main Seminar Hall of MJCET. The meeting was attended in full strength by all designated members of the board comprising of Head ITD, Associated Head ITD, and Program Coordinator for ITD, Representatives from Professional Bodies, Employers, Parents, and Alumni, Current Final Year students, and designated senior faculty members of ITD, and members of NBA Core Committee-MJCET. The meeting was presided by Head ITD.

Members representing the Professional Bodies Representatives were

Dr. Atul Negi, Professor, SCIS, UoH and Chair Executive Committee IEEE Hyderabad Section

Dr. Salman Abdul Moiz, Associated Professor, SCIS, UoH,

Mr. P.V.Rao, Consultant, Information Technology and Electronics and Communication Department, Govt. of AP,

Dr. Sudarsan Jena, Professor, GITAM University

Dr. M. M. Hussain, Professor of Geology, Deccan College of Engineering and Technology

INDUSTRY-INSTITUTE INTERACTIONS AND GUEST LECTURES

Guest lecture on Ethics in Computing

Dr. Amit Kumar briefed the audience on the topic “Ethics in Computing” by presenting some of the major pros and cons of the computing world. Types of hacking and phishing were highlighted.Dr. Amit Kumar highlighted the various ways in which phishing is being done and the various steps that can be taken to avoid loss due to phishing. Since his special interests are in the fields of Applied Computational Intelligence, Forensic Bioinformatics, Computational Biology and Bioinformatics he was able to impart a lot of useful knowledge to the students.

Guest lecture on Wavelets-Minions detecting arterial secondary flow patterns

Dr.Karthik Bulusu, Assistant research professor in the George Washington University gave a very informative talk on "Wavelets-Minions detecting arterial secondary flow patterns" on 30th December, 2013.

The following were the high points of his research as told by him:-

1. He described the blood flow pattern in the artery and also explained the physical experiments done in order to prove the theory.
2. Threw light on the concept of wavelets and their importance in the field of medicine.

Guest lecture on JQuery Enterprise Software Development

A Guest Lecture on JQuery Enterprise Software Development by Extreme IT Solutions on 1-Aug2013 by Mr. Riyaz Shaik, CTO, Xtreme IT Solutions, Hyderabad and Mr. Ravi, Technical Expert, Xtreme IT Solutions Hyderabad were the Chief guests and the Key speakers for the lecture

FACULTY ACHIEVEMENTS

Awards/Prizes/Achievements

1. Dr. Uma N. Dulhare received a Global Award as "Best Computer Science Faculty" by ASDF(Association of Scientists, Developer and Faculty) on 30-12-2013. She received the award from Shri. Virendra Kataria, Lt. Governor of Union Territory of Puducherry.
2. Mr. N. Md. Jubair Basha, Assistant Professor was awarded "Certificate of Recognition" by ACM for Ambassador 2013.
3. Mr. N. Md. Jubair Basha, Assistant Professor was awarded "Letter of Appreciation" by Advisor cum Director, MJCET for Engineering College survey work in two national magazines Outlook and The Week magazine 2013.

Papers published

1. Mrs. Afshan Kaleem,Mrs. G. Vani "Secured Routing and Improvement of QOS using S-DSR in MANETS", International Journal of Advances in Management, Technology & Engineering Sciences, Vol. II, issue 11 (III), August 2013.
2. Mrs. G. Vani, "Resource Discovery Technique for Mobile Grids to Improve QOS", International Journal of Advances in Management, Technology & Engineering Sciences, Vol. II, issue 11 (III), August 2013.
3. Mr. M.A. Rasheed, "Data Mining Approach for Deceptive Phishing Detection System", International Journal of Scientific research Engineering & Tech.
4. Mr. Ramu Kuchipudi, "An Efficient and Polynomial based key Distribution Approach for Wireless Sensor Networks", International Journal of Engineering Science and Innovative Technology, Vol. II, issue 6, Nov. 2013.

TECHNICAL ARTICLES

JAVA RING - A portable wearable device

A Java Ring is a finger ring that contains a small microprocessor with built-in capabilities for the user, a sort of smart card that is wearable on a finger. Sun Microsystems's Java Ring was introduced at their Java One Conference in 1998 and, instead of a gemstone, contained an inexpensive microprocessor in a stainless steel iButton running a Java virtual machine and preloaded with applets (little application programs). The rings were built by Dallas Semiconductor.

The Java Ring is an extremely secure Java-powered electronic token with a continuously running, unalterable real-time clock and rugged packaging, suitable for many applications. The jewel of the Java Ring is the Java iButton -- a one million transistor, single chip trusted microcomputer with a powerful Java Virtual Machine (JVM) housed in a rugged and secure stainless-steel case.

It is a stainless-steel ring, 16-millimeters (0.6 inches) in diameter that houses a 1-million-transistor processor, called an iButton. The ring has 134 KB of RAM, 32 KB of ROM, a real-time clock and a Java virtual machine, which is a piece of software that recognizes the Java language and translates it for the user's computer system.

The main components of the java ring are Java Virtual Machine (JVM), 134kb of ram, 32kb of ram, real time clock, ibutton, and blue dot receptor

Although Java Rings aren't widely used yet, such rings or similar devices could have a number of real-world applications, such as starting your car and having all your vehicle's components (such as the seat, mirrors, and radio selections) automatically adjust to your preferences, providing security or for personalized services.

MUHAMMED ADIL
BE –IV/IV

Researchers build Robotic Garden that teaches basic Programming concepts

A group of researchers have created a robotic garden they say is an aesthetically appealing way to get young students involved in programming. The researchers from MIT's Computer Science and Artificial Intelligence Lab (CSAIL) and the Department of Mechanical Engineering use robotic sheep, origami flowers and robotic Ducksto introduce students to topics such as graph theory and networking.

"Students can see their commands running in a physical environment, which tangibly links their coding efforts to the real world," said Lindsay Sanneman, software engineer at MIT's CSAIL.

"It's meant to be a launch pad for schools to demonstrate basic concepts about algorithms and programming."

The robotic garden is a tablet-operated system that can be controlled either by a click feature or a code feature where users can use programming techniques to execute their own commands and sequences in real-time. The system includes dozens of fast-changing LED lights and more than 100 origami robots able to crawl, swim and blossom like flowers.

The garden features eight varieties of origami flowers such as lilies, tulips and birds of paradise. The sheep robots were built using traditional print-and-fold origami techniques, while the magnet-powered ducks were heated in an oven to automatically fold into shape.

Sayyada Hajera Begum
Assistant prof., ITD

Microsoft Vs Google: Who has better privacy benefits?

"Google is in the process of making some unpopular changes to some of their most popular products," the ads read. "Those changes, cloaked in language like 'transparency,' 'simplicity' and 'consistency,' are really about one thing: making it easier for Google to connect the dots between everything you search, send, say or stream while using one of their services."

Is Microsoft's policy any different? Here are several ways it's just like Google:

- Microsoft also asks new users to provide personal information, including name, ZIP code and date of birth when they register for a product such as Hotmail. Like a Google profile that's attached to multiple services, this basic information establishes a Windows Live ID that Microsoft uses across its services.
- Microsoft uses cookies and other technologies to keep track of your interactions with their products to offer a personalized experience.
- Microsoft collects information about you and combines it with information obtained from other Microsoft services and other companies. It uses the information to provide services such as personalized content and advertising.
- As with Google, you can also opt-out of receiving targeted ads from Microsoft advertising. To be clear, you'll still see ads: That's how both companies make money.

But Google offers ways to fine-tune the personalized ads you see. For instance, if you are searching for restaurants in San Francisco and you see ads for Ruth's Chris Steakhouse, but you're a vegetarian, you can block that advertiser from appearing in future search results. Google also allows you to adjust the information that other sites get from Google to show you ads.

Curious about who Google thinks you are? Go to Ad Preferences Manager, log into your account and select "Ads on the web" to see categories and demographic data that Google has determined from your activity. You can easily edit the information.

If you're still uncomfortable with the idea of tracking your preferences, Google makes it easier to jump ship using its Takeout tool, a part of what it calls Data Liberation Front, a group of Google engineers dedicated to moving data in and out.

STUDENT ACHIEVEMENTS

Academic Achievements

Roll No.	Name	Rank
1604-09-737-128	Ms. Kulsum Fatima	I
1604-09-737-119	Ms. Sana Siddiqua	VII

Sports Achievements

1. Students of 2nd year won Inter college Cricket tournament held at MJCET, by IEEE-MJCET.
2. Rumana Khatoon- National Level Basketball playerparticipated in Women national championship at Bhopal, MP, in Oct 2013&Junior nationals at Orissa in Dec 2013.

STUDENT ACTIVITIES

Inaugural of IEEE-CIS

Computational Intelligence Society (CIS) saw its inception as the fifth subchapter under the IEEE-MJCET student branch on 4th of October 2013. This is the first IEEE-CIS student chapter in the whole of region-10.The chief guest of the day Dr. Amit Kumar, Treasurer IEEE Hyderabad section and Chairperson IEEE-CIS Hyderabad section inaugurated the chapter by announcing its first executive committee.

Enquesta

IEEE-CIS organized a technical game called Enquesta in the month of November for the freshmen to diminish their hindrances. The event focused on the soft skills of the participants by providing them a platform to invigorate their talent and imagination and speak on the given random topic for a minute followed by a technical quiz where computational and higher order thinking skills of the participants was put to test. The event drew huge number of participants and was lauded by the participants and faculty members.

CAMPUS PLACEMENTS

Organization	2013-14
Wipro Technologies	03
Infosys	14
HSBC Software Development	02
X Tream IT People Inc	01
Capgemini 2012-13 Batch	01
Computer Science Corporation (CSC)	05
Total Job offers	**26**

ANNOUNCEMENTS

Upcoming Events

- Guest lectures on latest trends
- 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 – Wireless Sensor Networks

Interested students and faculty members can submit the articles on this theme. The article will be published in the next issue of Infovogue after being checked by the editorial committee.

EDITORIAL BOARD

B.E. II - IV YEAR II Semester– ACADEMIC CALENDAR 2013-14

SNO	Event / Activity	Scheduled Date
1	Commencement of Class work	10-12-2013
2	Submission of List of Students not reported up to 21-12 - 2013	23-12-2013
3	Winter Vacation	06-01-2014 to 18-01-2014
4	Online submission of attendance up to 04-01-2014	20-01-2014 to 22-01-2014
5	Assignment – I Submission Date	22-01-2014
6	Feedback	22-01-2014 to 24-01-2014
7	Distribution of Corrected Mid Term Assignments	03-02-2014
8	Online submission of attendance up to 08-02-2014	10-02-2013 to 11-02-2014
9	Meeting / counseling with parents of students having less than 65% of aggregate attendance	13-02-2014 to 15-02-2014
10	Class Test I	17-02-2014 to 19-02-2014
11	Distribution of Corrected Scripts of Class Test I and Online Entry of Class Test I Marks	24-02-2014 to 26-02-2014
12	Display of Internal Marks	03-03-2014
13	Online Entry of Attendance up to 08-03-2014	10-03-2014 to 11-03-2014
14	Issue of Progress Report and meeting with parents of underperforming students of II, III and IV years	13-03-2014 to 15-03-2014
15	Assignment - II Submission Date	22-03-2014
16	Distribution of Corrected Second Term Assignment	01-04-2014
17	Online Entry of Attendance up to 02-04-2014	03-04-2014 to 05-04-2014
18	Class Test II	03-04-2014 to 05-04-2014
19	Distribution of Corrected Scripts of Class Test II and Online Entry of Class Test II Marks	09-04-2014 to 11-04-2014

20	Display of Class Test II Marks, Final Attendance and Detention List	12-04-2014
21	Last Date of Instruction	12-04-2014
22	Intimation of Errors and Discrepancies by Students to HODs	16-04-2014
23	Submission of Final Sessional Marks and Attendance Statements	18-04-2014
24	Commencement of Practical Examination	14-04-2014 to 26-04-2014
25	Commencement of Theory Examinations	28-04-2014