MUFFAKHAM JAH COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF INFORMATION TECHNOLOGY

INFOVOGUE

Month & Year: DEC, 2016 | A Semi Annual Newsletter | VOLUME VIII, ISSUE I

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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.

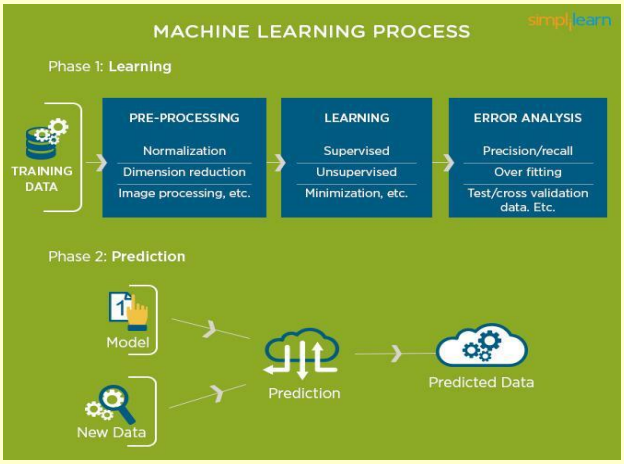
xii. An ability to understand engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects.

Article on Machine Learning

Machine learning is a core sub-area of artificial intelligence as it enables computers to get into a mode of self-learning without being explicitly programmed. When exposed to new data, computer programs are enabled to learn, grow, change, and develop by themselves. In other words, it allows computers to find insightful information without being programmed into where to look for a particular piece of information. This, it does by using algorithms that iteratively learn from data.

Examples of applied machine learning:

the self-driving Google car, cyber fraud detection, online recommendation engines - like friend recommendations on Facebook, movie recommendations on Netflix and offers recommendations from Amazon.



Why Machine Learning?

With the constant evolution of the field, there has been a subsequent raise in the uses, demands, and importance of machine learning. The answer to the question as to why one has to adopt machine learning would be: 'High-value predictions that can guide better decisions and smart actions in real time without human intervention'.

Machine learning has also changed the way data extraction, and interpretation is done by involving automatic sets of generic methods. that have replaced traditional statistical techniques.

Uses Of Machine Learning:

To understand the concept of machine learning better, let's consider some more examples: web search results, real-time ads on web pages and mobile devices, email spam filtering, network intrusion detection, and pattern and image recognition. All these, are by-products of applying machine learning in the analysis of huge volumes of data.

Machine Learning proposes clever alternatives to analyzing huge volumes of data. It is a step forward from all of statistics, computer science and all other emerging applications in the industry. By developing fast and efficient algorithms and data-driven models for real-time processing of data, machine learning is able to produce accurate results and analysis.

Some Popular Machine Learning Methods:

1. Supervised Learning
2. Unsupervised Learning
3. Semi-Supervised Learning
4. Reinforcement Learning

Algorithms used:

1. Neural networks
2. Decision trees
3. Random forests
4. Associations and sequence discovery
5. Nearest-neighbor mapping
6. K-Means clustering
7. Self-organizing maps
8. Local search optimization techniques (e.g., genetic algorithms)

Machine learning platforms are:

1. WEKA Machine Learning Workbench.
2. R Platform.

Machine learning tools with a graphical interface include:

1. KNIME
2. RapidMiner
3. Orange
4. Waffles
5. WEKA Machine Learning Workbench

DEPARTMENTAL ACTIVITIES

Information Technology Department has initiated Guest Lectures and Industry Institute Interactions in the academic curriculum to fill 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.

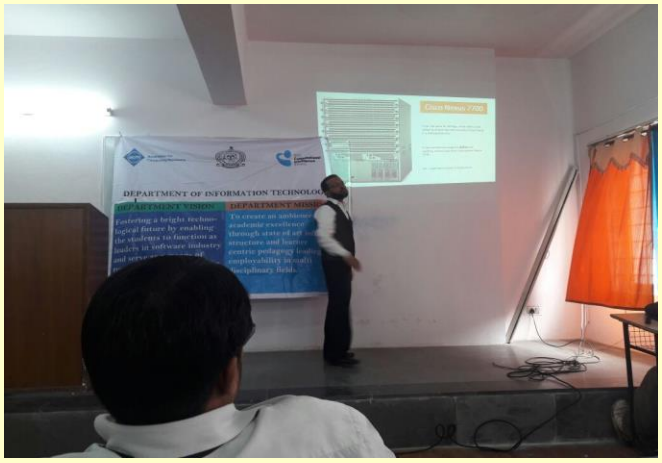
Effective CRM using Social Engagement and Machine Learning

The objective of the techical talk was to make students familiar with Microsoft Dynamics CRM and its use in social media platforms and use of machine learning in operationalising the services.
The speakers of the talk were Bishnupriya Pradhan and Kannan Chandrasekaran from Microsoft.
The guest invited for the talk were:

i. Mr. Lakshminarayana Merugu – Chairman IEEE Hyderabad Section
ii. Dr. Atul Negi – Professor, UoH
iii. Mr. Madhav Negi - Chair, Membership Drive IEEE
iv. Dr. Naresh Kumar M – Chair IEEE Computational Intelligence Society

Career Opportunities and Project Trends in Emerging Technologies

The objective of the seminar was to make the students aware of the career opportunities in the market and the importance of career planning.
The talk focused on the work and learning options available for the students in the area of networking and concepts of data center. The guest speaker also showed the importance of completing final year projects with proper guidance and training.
The speaker for the talk was Mr. Aatif Hussain, CCIE (R&S/SP), CEO link Tutor and International corporate trainer.



FACULTY ACHIEVEMENTS

ENROLLMENT IN PhD

1. Ms. Asia Sultana got admitted in JNTU.
2. Mr. Asrar Ahmed got admitted into Osmania University.

PAPERS PUBLISHED BY FACULTY

1. Mousmi Ajay chaurasia, “Grapheme-to-Phoneme conversion scheme based on Joint Sequence Statistical Model using Sentence-by- sentence learning approach”, Vol. 3 Issue 7 (Part-2) July 2016 pp 88-91International Journal of Current Engg. & Scientific Research (IJCESR) DOI: 10.21276/ijcesr 2393-8374 (Print) 2394-0697 (Online)

2. Mousmi Ajay chaurasia, “Cloud Computing: Challenges Of Security Issues”, ISSN (print): 2393-8374, (online): 2394-0697, Volume-3, Issue-8, September 2016 23-29, International Journal Of Current Engineering And Scientific Research (IJCESR)

3. Shaik Rasool, "A Study on Quality Aspects for Web Services", International Journal of Engineering Trends and Technology (IJETT), V41(4), 232-237 November 2016. ISSN:2231-5381.

4. Md. Riyazuddin, “Pattern Anonymization: Hybridizing Data restructure with Feature Set Partitioning for privacy preserving in Supervised Learning” - SPRINGER AISC series ICCII-2016 International Conference at JNTUH Conducted in May 2016. Published in Nov 2016.

5. Munavvara Tahaseen, “Comparative study of differential keyword searches over cloud data” – IJECCE journal, Nov 2016

6. Mohd Sarfaraz Ahmed, Md Ibrahim Khalilullah, MDV Prasad, “A Study On Chord Based Peer to Peer Systems For Routing Queries”, published in ELSEVIER Materials Today: Proceedings- ICAMT-Dec 2016.

7. G. Vani, “Survey on Manet Protocols”, 4th International conference on Innovations in computer Science Engineering July 2016

WORKSHOP/CONFERENCE PARTICIPATION BY FACULTY

1. Abdul Wajid attended One Week Faculty Development Program on Signal Processing Techniques from 15-19 November, 2016 conducted by MVSR engineering college.

2. The following faculty members attended one week FDP on Cryptography and its Applications from 19-23 Dec 2016 conducted by CSED, OU
   i. Md. Riyazuddin
   ii. Asrar Ahmed
   iii. Azar Ali
   iv. Arif Hussain

3. The following faculty members took Online STTP on Algorithms from 13 sep - 4 Nov 2016 conducted by IIT BombayX.
   i. Maniza Hijab
   ii. Uma N. Dulhare
   iii. Asia Sultana
   iv. Fouzia Sayeedunnisa
   v. Hajera Begum
   vi. Tahaseen Munavvara
   vii. G. vani

4. Asrar Ahmed attended a 2- day national workshop on “practical machine learning and data science – PMLEADS” at CSED, UCE, OU on 17 Oct and 18 Oct 2016

5. Following faculty members attended a 2-day workshop on Data Analytics on 29 & 30 Dec 2016 at St. Martins Engg. College, Hyderabad
   i. Mohd Pasha
   ii. Md Ibrahim Khalilullah

STUDENT ACHIEVEMENTS

1. Md. Abdul Khader Sufi, Syed Salman of B.E. III/IV secured first position in group discussion conducted by Women in Engineering, IEEE MJCET.
2. Mohd Adil Khan of B.E I/IV secured Business Development Internship at Nearbuy
3. Syed Salman, Md. Abdul Khader Sufi of B.E. III/IV secured second position in Xtreme Hackathon conducted on August 2016.
4. Menitha magani of B.E III/IV secured tghird positin in 100 mt hurdles in inter college athletics championship held on nov 2016.
5. Tirdala nikitha, Magani Menitha of B.E II/IV and III/IV secured second position in lawn tennis in inter college tournament held on sept 2016.
6. Magani menitha of B.E III/IV secured first position in Kumite event conducted by Nayak Budokan karate Academy held on aug 2016.

UPCOMING EVENTS

- Guest lectures on latest trends
- Programming Languages workshop for Final years
- Technical Events
- Mock Interviews
- Industry Institute Interaction Programs for academic subjects
- Competitive Mobile App development

CALL FOR ARTICLES

Call for articles for the next issue of INFOVOGUE Newsletter theme – Machine Learning

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

B.E. II, III and IV YEAR I Semester – ACADEMIC YEAR 2016-2017
ACADEMIC CALENDAR

Sl. No.	Event / Activity	Scheduled Date
1	Commencement of Class work	11-07-2016
2	Manual submission of attendance up to 06-08-2016	10-08-2016
3	Meeting / Counseling with parents of students having less than 65% of aggregate attendance up to 06-08-2016	16-08-2016 to 20-08-2016
4	Class Test I	29-08-2016 to 31-08-2016
5	Distribution of Corrected Scripts of Class Test I and Online Entry of Class Test I Marks in Assessment matrix and online portal	13-09-2016 to 17-09-2016
6	Feedback	13-09-2016 to 17-09-2016
7	Display of I Internal Marks and monthly attendance up to 09-09-2016	19-09-2016
8	Issue of Progress Report, Meeting / counseling with parents of students having less than 65% of aggregate attendance up to **09-09-2016** and/or scoring less than 40% marks in Class Test I	22-09-2016 to 24-09-2016
9	Final Year Project Review	26-09-2016 to 29-09-2016
10	Display of aggregate attendance up to 22-010-2016	26-10-2016
11	Class Test II	27-10-2016 to 29-10-2016
12	Last Date of Instruction	29-10-2016
13	Meeting with parents of students having less than 65% of aggregate attendance up to 22-10-2016	31-10-2016 to 02-11-2016
14	Distribution of Corrected Scripts of Class Test II and Online Entry of marks in Assessment Matrix and MJCET Portal	31-10-2016 to 02-11-2016
15	Practical Examination	31-10-2016 to 19-11-2016
16	Display of Final Internal Assessment Marks	03-11-2016 to 05-11-2016
17	Intimation of Errors and Discrepancies by Students to HODs	05-11-2016
18	Commencement of On line entry of Final Sessional Marks and Attendance on OU Portal	07-11-2016
19	Commencement of Theory Examinations	21-11-2016