



IT Chronicle

A Half-Yearly News Letter

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June, 2014

Dept of Information Technology

Department of IT, MGIT are working and preparing of for NBA accreditation.

June 2014: The Department of Information Technology one of the first department established in MGIT in the year 1997. We are proud to say that fourteen batches of IT students completed their B.Tech programme successfully . and Many of them got admissions in Master programme abroad and majority of them have been employed in reputed IT companies, organizations spread across the globe. Department of IT Accredited once for three years and now IT department applied for renewal of NBA accreditation based on Washington accord .

IT YUKTI-2014: A National Level Technical Symposium

March 2014: The IT Department of MGIT has been conducting Yukti – A National Level Technical Symposium yearly once. This Technical Fest helps the students to expose their hidden talents in various activities like paper presentation, quiz, debugging, LAN games etc. The Dept

motivates students to take up innovative projects and always strives to help students in molding their career and become future technocrats.

The Department of IT has conducted YUKTI'14- A National Level Technical Symposium on

21st and 22nd March 2014. The Event was inaugurated by Chief Guest Mr. Raja Gopal Sattaluri, Vice President, Java Solutions, Tech Mahindra ,the Guest of Honor Dr.T.C . Sarma, Dean and HOD ECE, GRIET .

IT DEPARTMENT'S VISION, MISSION AND PEO'S

Vision

To keep abreast of the latest developments with an aim to nurture students and to equip with tools and applications to develop socially useful technologies and to transform students into future global technocrats.

Mission

To gradually transform into a centre of excellence, adopting cutting edge technologies necessary for nation building while maintaining global standards in education, training and services providing quality environment and technical know-how to all its stakeholders.

to design, construct, install and optimize the use of electronic devices, informatics, automation tools and Communication Skills to use in a variety of applications.

To equip students to recognize and understand the social, cultural, Ethical, global and environmental responsibilities of the professional engineer, and the need for sustainable development,

PROGRAMME EDUCATIONAL OBJECTIVES

To provide students with a sound foundation in the fields of English, Mathematics, Science and Technology so as to work productively as IT Professionals, in leadership roles.

To train students in order to develop the ability

To provide opportunities for students to engage them in continuous academic lifelong learning and to update them in their profession to groom them as leaders in the technological world.

Special points of interest:

- Research opportunities in cognitive radio-Mrs. B. Meenakshi, Asst. Prof.
- CSI Student Branch Establishment in MGIT.
- Many of our students are choosing Masters in abroad as their next goal in their career.
- Hidden Markov Models for Character recognition- Article.

Editorial Committee:

Dr. M. Rama Bai, Prof
Assoc. Prof G. Kasi Reddy
Asst. Prof D. Vijay Kumar

Columnist:

Asst. Prof D. Koteswara Rao

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CSI Student Branch, Women's Day Updates



Inaugural of Women's Day celebrations.



Prof. M. Rama Bai addressing the participants on the occasion of Women's Day celebrations.



Mr. Sai Satish, CEO Indian Servers, giving a talk on "Exploring Internet".



Inaugural of CSI Student Branch.



CSI Student Branch Establishment.



CSI Student Branch Membership Certificate.

Orientation courses/Refresher courses/FDPs/Workshops

Attended by the Faculty

Sl. No.	Name of the Faculty	Name of the course	Place	Date	Duration
1	Mr. G. Kasi Reddy	UGC-Sponsored Summer school on " Strategies for Research Oriented Teaching"	UGC-Academic Staff College, JUTU Hyderabad	19 th May 2014 to 7 th June '14	3 Weeks
2	Mr. D. Koteswara Rao	First Annual TCIS Summer Research Symposium	TCIS, Tata Institute of Fundamental Research, Hyd.	26 th June 2014	1 Day
3	Mrs. B. Nanditha	UGC-Sponsored Summer school on " Strategies for Research Oriented Teaching"	UGC-Academic Staff College, JUTU Hyderabad	19 th May 2014 to 7 th June '14	3 Weeks
4	Mrs. J. Hima Bindu	UGC-Sponsored Summer school on " Strategies for Research Oriented Teaching"	UGC-Academic Staff College, JUTU Hyderabad	19 th May 2014 to 7 th June '14	3 Weeks
5	Mrs.Ch. Lakshmi Kumari	UGC Sponsored "Orientation Course"	UGC- ASC JNTU, Hyderabad	12 th May to 7 th June ,2014	4 Weeks
6	Mr. D. Koteswara Rao	FDP on Project management from an Industry perspective	MGIT, Hyderabad	8 th May, 2014	One Day
7	Mrs. N. Sri Divya	FDP on Project management from an Industry perspective	MGIT, Hyderabad	8 th May, 2014	One Day
8	Mr. G. Kasi Reddy	FDP on Project management from an Industry perspective	MGIT, Hyderabad	8 th May, 2014	One Day
9	Mrs. Swetha Adchalwar	Virtualization and cloud computing	CBIT, Under TEQIP-II.	11 th & 12 th March, 2014	2 Days
10	Mr. D. Vijay kumar	Virtualization and cloud computing	CBIT, Under TEQIP-II.	11 th & 12 th March, 2014	2 Days
11	Mrs. A.Swapna	Socio-effectiveness of Women- WOW FACTOR	Ashna-Women's cell at MGIT	8 th and 10 th March 2014	3 Days
12	Mrs. B. Meenakshi	A National workshop on "Wireless Communications"	CBIT, Hyderabad	Feb 14 th -15 th , 2014	2 Days

Research opportunities in Cognitive Radio- Mrs. B. Meenakshi Asst. Prof, IT Dept



June' 2014- Cognitive radio is an emerging and challenging research field in the domain of Wireless networks. Cognitive radio is an intelligent radio that can change its parameters such as transmission waveform, channel access method, spectrum use, and networking protocols according to the environmental changes. It has its wide applications in battle field, agriculture, consumer markets, public safety etc.

Due to wide spread utilization of wireless technologies, there is an ever increasing demand for more radio spectrum. However, most easily usable spectrum bands have been allocated, although many studies have shown that these bands are significantly underutilized. These considerations have motivated the search for breakthrough radio technologies that can scale to meet future demands both in terms of spectrum efficiency and application performance. Cognitive radios offer the promise of being a disruptive technology innovation that will enable the future wireless world. The Research topics include Multi-hop transmission, routing, and cross-layer optimization, Spectrum mobility and handoff, Economics of cognitive radio systems, Robustness, reliability, security, Applications and services, Simulation tools, test-beds, software and hardware prototypes and standardization etc.- News Desk, IT dept.

FACULTY PUBLICATIONS

S. No	Faculty	Details of Publication
1	Dr. M. Rama Bai	"A New Approach for Averting Jamming Invasion with Packet Hiding Methods," International Journal of Advanced Computer Research Volume-3 Number-4 Issue-13 December-2013 pages 298-302.
2	Mrs. Swetha Adchalwar	"New approach for edge extraction using Various preprocessing methods on Skeletonization technique," International Journal of Application or Innovation in Engineering & Management Volume 2, Issue 6, pp.273-278, June 2013.
3	Mrs. B. Meenakshi	"An Overview of facial movement features on the way to the discovery of facial expression" in IJRRECS/October 2013/Volume-1/Issue-6/1075-1080, ISSN 2321-5461.
4	Mrs. A V. L. Prasuna, Mrs. U. Chaitanya	"A survey on simulators for "Cognitive Radio Network" in IJCSIT vol.5(3),2014 Pg. 4760-4761 with ISSN:0975-9646.
5	Mrs. B. Nanditha	"Performance Evaluation and Analysis of MAC protocols for Wireless Sensor Networks using traffic generators " during IC3T-2K14 on March 28 th -29 th 2014 at CMR Technical Campus with ISSN - 2248-9584.
6	Mrs. J. Aruna Shanthi	"A Preliminary Survey of Essential Technical Challenges in Cloud Computing Forensics " Presented in the National Conference on Emerging & Innovative Trends in Computer Science at Vasavi Engineering College, Hyderabad during 1-2 April 2014.
7	Mrs. J. Hima Bindu	"Cloud Progression Towards the Data Integrity" Presented in the National Conference on Emerging & Innovative Trends in Computer Science at Vasavi Engineering College, Hyderabad, during 1-2 April 2014.
8	Mrs. Ch. Lakshmi Kumari	"Restricting the Hacking Users in Anonymizing Networks" Presented in the National Conference on Computer Networks & Information Security at Vasavi Engineering College, Hyderabad,during 4-5 March 2014.
9	Mrs. N. Sreedivya	"Identifying spam in mobile Ad network using latent class model" presented in an International Conference on Computer & Communications Technologies 2K14 during March 28 th -29 th 2014
		"Blobseer with Version Pruning Module for Fast Retrieval of Historical Data" Presented in the National Conference on Emerging & Innovative Trends in Computer Science at Vasavi Engineering College, Hyderabad,during 1-2 April 2014.

PLACEMENTS AND DETAILS OF ADMISSIONS FOR MASTERS IN USA FOR THE ACADEMIC YEAR 2013-2014

S. No	Company	IT Dept
1	TCS	4
2	HSBC	2
3	Persistent systems	1
4	TechAspect	1
5	IBM	1
6	Verizon	1
7	iService globe	1
8	GGK Technologies	1
9	Infosys BPO	5
10	Infosys Ltd	4
11	CTS	2
12	CSC India (P) Ltd	3
	Total	26

June 2014: This year also different software companies visited MGIT. They conducted exams, interviews and selected students from different branches of Engineering and Technology. The students of the IT department have got placed in companies: TCS, HSBC, Persistent systems, TechAspect, IBM, Verizon, iService globe, GGK Technologies, Infosys BPO, Infosys Ltd, CTS, CSC India (P) Ltd. Almost all of our IT students have also written exams such as GRE, TOFEL, IELTS, GATE to seek admission in M. Tech, M.S in India and abroad. Ms. K. Reethi got top score in GRE, TOFEL exams in this Academic year. And Ms. Shrenya Reddy.S, Ms. Susmitha have got good score in the GRE, TOFEL exams -Placements Officer Desk MGIT.

Hidden Markov Models for Character

June 2014: Hidden Markov models are very successfully applied in speech recognition where phoneme segmentation is difficult. And HMMs are also being employed for character recognition since there are segmentation difficulties due to poor binarization and noise.

So, These models would be useful to improve the recognition rate in Telugu character recognition.— D. Koteswara Rao.

May 2014: Most of the students of IT Dept have done well and got good scores in GRE, TOFEL, and IELTS and GATE exams. And they have applied to universities in USA to do their Masters.

Many of our students are choosing Masters as their next goal in their carrier. The details of their admission are given in the below table. - Dept of IT.

S.No	HT NO	NAME	UNIVERSITY
1	10261A1226	K. Reethi	M.S, North Eastern University, Massachusetts, GRE: 321, TOFEL: 115
2	10261A1245	Meghna Reddy. S	M.S, California Sate university Sant Clara, GRE: 307, TOFEL: 105
3	10261A1247	Shrenya Reddy. S	M. S, Syracuse University New York, GRE: 316, TOFEL: 107
4	10261A1248	Teja Reddy. S	M.S, University of Houston, GRE:286, IELTS: 6
5	10261A1250	Sai Kiran. S	M. S, Bradley University, GRE: 305, TOFEL: 85
6	10261A1251	Susmitha. S	University of Houston, Main Campus; GRE: 311, TOFEL: 92
7	10261A1254	Nehasri Reddy. T	M. S, The University of Maryland Baltimore County (UMBC), GRE: 308, TOFEL: 103
8	10261A1258	Sai Kiran. V	M. S, Bradley University, GRE: 300, IELTS: 7/9

"A fool with a tool is still a fool."

- Grady Booch

For the academic year 2013-14, many of our students graduated from Information technology department have appeared exams: GRE and TOFEL, IELTS and got good scores.

And most of the toppers of this batch preferred and shown interest in Masters program in abroad universities than placement in IT companies.

The following are some of the Universities where our students got admission into their Masters: - North Eastern University, Massachusetts; California Sate university, Syracuse University, Bradley University, University of Houston, Main Campus; The University of Maryland Baltimore County (UMBC), -Higher Education Details, IT Dept.

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The Way To Algorithmic



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MGIT started functioning with three branches Information Technology (IT), MCT and Technology (MMT).

Department Of Information Technology (IT): Established in the year 1997, the department has an annual intake of 60 students. Our department has one professor, two associate professors and thirteen assistant professors. In the Department there are three programmers and two operators as supporting staff. The department of IT boasts a healthy placement record with companies such as TCS, HSBC, Persistent systems, TechAspect, IBM, Verizon, iService globe, GGK Technologies, Infosys BPO, Infosys Ltd, CTS, CSC

Programme Outcomes

- a. An ability to apply knowledge of mathematics, science and engineering.
- b. An ability to design and conduct experiments, as well as to analyze and interpret data.
- c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- d. An ability to function on multi-disciplinary teams.
- e. An ability to identify, formulate, and solve engineering problems.
- f. An understanding of professional and ethical responsibility.
- g. An ability to communicate effectively.
- h. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- i. A recognition of the need for, and an ability to engage in life-long learning.
- j. A knowledge of contemporary issues.
- k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
- l. An ability to work professionally in developing software applications including the design implementation and maintenance.

Forth Coming Events

IT Department has planned to conduct more number of Guest lectures than the previous academic year to train Both M.Tech and B. Tech students on recent trends in Information technology, software environments to be useful to carry out their Major and mini projects.

Department of IT has been working and making all the preparations to be assessed by the NBA based on Washington Accord.

Department is also planning to organize a National Conference in the month of December 2014.