Special points of interest:

- One Week FDP on "Internet of Things with Raspberry Pi & Network Simulator (NS-2)"

- Many of the Faculty Continuously attending Faculty Development programmes and publishing papers.

Editorial Committee:

Dr. M. Rama Bai, Prof.

Dr. V. Ramesh, Assoc. Prof.

Mr. D. Vijay Kumar, Asst. Prof.

Mr. M. Ayyavaraiah, Asst. Prof.

Columnist:

Mr. G. Kasi Reddy, Assoc. Prof.

Inside this issue:

Department of Information Technology

The Department of Information Technology is one of the first departments established in MGIT in the year 1997 and has got accredited by NBA twice so far. We are proud to say that sixteen batches of students have successfully completed their B.Tech programme 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.

One Week FDP on "Internet of Things with Raspberry Pi & Network Simulator (NS-2)"

The Department of Information Technology, in association with Pantech conducted a One Week Faculty Development Programme (FDP) on "Internet of Things with Raspberry Pi & Network Simulator (NS-2)" during 17th to 21st October, 2016. The emergence of IoT, critical infrastructure that used to be isolated from the Internet, is now connected to the Internet via Internet enabled devices, such as meters and sensors. NS2 is an event-driven simulator designed specifically for research in communication networks. To investigate network performance, researchers can simply use an easy-to-use scripting language to configure a network, and observe results generated by NS2.

FDP has provided participants with good insights of Internet of Things.

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 stake holders.

PROGRAMME EDUCATIONAL OBJECTIVES(PEOs)

I. 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.

II. To train students in order to develop the ability to design, construct, install and optimize the use of electronic devices, informatics, automation tools and Communication Skills to use in a variety of applications.

III. 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.

IV. 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.

Professional Development Programmes attended by Faculty

(Orientation /Refresher courses/FDPs/Workshops)

Sl. No.	Name of the Faculty	Name of the course	Place	Date	Duration
1	Dr. M. Ramabai Mrs. A. V. L. Prasuna Mr. G. Kasi Reddy Dr. V. Ramesh Mrs. P. Maitreyi Mr. D. Vijay Kumar Mrs. J. Aruna Shanthi Mrs. N. Sri Divya Mrs. J. Hima Bindu Mrs. B. Nanditha Mrs. B. Meenakshi Mrs. CH. Lakshmi kumari Mrs. B. Swetha Mrs. CH. Anupama Mr. M. Ayyavaraiah	Pantech Pro and MGIT IT Dept. Collaborately Android Application Development	MGIT IT Dept., Hyderabad	22nd& 23rd July, 2016	2 Days
2	Dr. M. Ramabai Mr. G. Kasi Reddy Dr. V. Ramesh Mrs. P. Maitreyi Mr. D. Vijay Kumar Mrs. N. Sri Divya Mrs. J. Hima Bindu Mrs. B. Nanditha Mrs. B. Meenakshi Mrs. CH. Lakshmi Kumari Mrs. B. Swetha Mrs. CH. Anupama Mr. M. Ayyavaraiah	Internet of Things with Raspberry PI & Network Simulator(NS-2)	MGIT IT Dept. Hyderabad	17th to 21st October, 2016	1 Week
3	Mrs. A. Swapna	Intelligence and Security Informatics"	CBIT Hyderabad	24th & 25th July, 2015	2 Days

Research Publications of Faculty

S. No	Name of the Faculty	Details of Publication
1	Dr. M. Rama Bai	A Novel Approach to Design of Stable Performance Protocol Using Quality Diversity", International Journal of Scientific Engineering and Technology Research, 2016, ISSN: 2319-8885, Vol.05, Issue-32, Pages 10279-10283
2	Mrs. A V. L. Prasuna	Secret data Communication Using Watermarking" International Journal of Scientific Engineering and Technology Research, 2016 , ISSN: 2319-8885, Vol.05,Issue-32, Pages 6688-6692.
3	Mr. G. Kasi Reddy	Self-Adaptive Video Streaming Services", International Journal of Computer Science Information and Engineering Technologies, 2016, ISSN: 2277-4408, Vol.3, Issue.2.
4	Dr. V. Ramesh	Improved Finger Print Matching by Distortion Removal", Journal of Network Communications and Engineering Technologies, Vol.6, issue.9, ISSN: 2395-5317
5	Mrs. U. Chaitanya	A Scalable Approach to store and share Encrypted Data among Dynamic Groups in the Cloud" International Journal of Scientific Engineering and Technology Research, ISSN: 2319-885, Vol. No.5, Issue: 46.
6	Mr. D. Vijay Kumar	A Survey of Job Scheduling in Cloud Computing Environment, International Journal of Computer Science and Engineering (SSRG-IJCSE) 2016 Volume.3, Issue.10.
		A Dynamic Multipath Routing Algorithm IDDR on Concept of Potential Different QoS Requirements ", International Journal of Scientific Engineering and Technology Research 2016, ISSN: 2319-8885 Vol.05, Issue-50 Pages 10274-10278.
7	Mrs. J. Aruna Shanthi	A Comprehensive Survey on Privacy Preserving Distributed Data Mining with Evolutionary Computing ", International Journal of Innovative Technology and research,2016, ISSN:2320-5547 Vol.no.4, Issue No.5
		Accuracy – Access Control Mechanism for Relational Database", International Journal of Computer Engineering & Applications, Vol. IX, ISSN: 2321 – 3469
8	Mr. M. Ayyavaraiah	Nomenclature of Opinion Mining and Related Benchmarking Tools, International Journal of Scientific Engineering and Technology Research, ISSN: 2229-5518, Vol. No.7, Issue: 8.

"Creativity is the key to success in the future, and primary education is where teachers can bring creativity in children at that level."

-*A. P. J. Abdul Kalam*

"Creativity in India can make poetry as well as technology for the world."

-*Satya Nadella*

MASTERS IN USA FOR THE ACADEMIC YEAR 2015-2016

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 chosen Masters as their next goal in their career. The details of their admission are given in the below.

The following are some of the Universities where our students got admission into their Masters: – Florida Institute of Technology, The University of North Carolina, etc.

S.No	HT NO	NAME OF THE STUDENT	UNIVERSITY
1	12261A1202	Aditya Eaturu	Florida Institue of Technology
2	12261A1224	Vineeta Kandala	The University of North Carolina
3	12261A1244	Akhil Reddy	North Illinois University
4	12261A1237	M. V. N. Pavanasindhura	M. Tech, MVSR Engineering College
5	12261A1239	Nethi Srinivas Rohit	The University of North Carolina
6	12261A1210	Vivek Sheetal	Texas A&M University
7	12261A1259	Abhinay	University of Illinois

"Education is the best friend. An educated person is respected everywhere. Education beats the beauty and youth."

-Chanakya

"Progress is often equal to the difference between mind and mindset."

-N. R. Narayana Murthy

Department of Information Technology

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Department Of Information Technology (IT): Established in the year 1997, the department has an annual intake of 60 students. The   department has one Professor, three Associate Professors and twelve Assistant Professors including the supporting staff: three programmers   and one operator. 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 Ltd, CTS, CSC India (P) Ltd.

Forth Coming Events

The Department of IT is planning conduct Yukti'17—A National Level Technical Symposium in the month of April 2017.

MGIT

www.mgit.ac.in

Programme Outcomes(POs)

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, 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.

Programme Specific Outcomes (PSOs)

PSO-1: *Foundation of Computer System:* Ability to understand the principles and working of computer systems. Students can assess the hardware and software aspects of computer systems.

PSO-2: *Foundations of Software development:* Ability to understand the structure and development methodologies of software systems. Possess professional skills and knowledge of software design process. Familiarity and practical competence with a broad range of programming language and open source platforms.

PSO-3: *Foundation of mathematical concepts:* Ability to apply mathematical methodologies to solve computation task, model real world problem using appropriate data structure and suitable algorithm.

PSO-4: *Applications of Computing and Research Ability:* Ability to use knowledge in various domains to identify research gaps and hence to provide solution to new ideas and innovations.