Special points of interest:

International Conference on Innovations in Computer Science and Information Technology (ICICSIT – 2015)

Editorial Committee:

Dr. M.Rama Bai, Prof.

Dr. V.Ramesh, Prof.

Mr. D.Vijay Kumar, Asst. Prof.

Columnist:

Mr. G.Kasi Reddy, Assoc. Prof.

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 fifteen 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.

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 life-long learning and to update them in their profession to groom them as leaders in the technological world.

Address by Dr. V. Malakonda Reddy Garu, President, CBIT and Member Advisor MGIT.

Address by Sri. D. Kamalakar Reddy Garu, Secretary & Correspondent, MGIT. Mr. George, founder & CEO of Ideabytes, Canada, Delivered the Keynote Speech.

Release of Conference Proceedings.

Talk on Research Issues in Computer Science by chief guest Sri Hari Prasad Devarapalli, Head, Corporate Industry Forums & Standards Cell , TCS.

Welcome Speech by the Principal- Dr. G. Chandra Mohan Reddy

Dignitaries and Participants.

International Conference on Innovations in Computer Science and Information Technology (ICICSIT – 2015)
28th & 29th August, 2015

The Department of Information Technology organized its First two-day International Conference on Innovations in Computer Science and Information Technology (ICICSIT-2015) on 28th and 29th August 2015, in association with Institute of Electronics and Electrical Engineers (IEEE) , Computer Society of India (CSI) and Indian Society for Technical Education (ISTE) at MGIT campus Hyderabad. This conference has provided a platform for researchers and academicians to share and exchange ideas on the various research topics in the fields of Computer Science and Information Technology such as Computing, Networks, Communication Technology and Security, Software Engineering, Computational Intelligence and Multimedia Computing.

The conference officially inaugurated by lighting of the Lamp by the Chief Guest Prof .Rama Krishnan, Adjunct Professor, Amrita University, Coimbatore, Mr George P Kongalath, CEO of Idea Bytes, Sri D.Kamalakar Reddy Garu, Dr. G. Chandra Mohan Reddy, Principal MGIT and the organizers of the conference.

Experts and the resource persons from India and abroad were invited who have sound knowledge in the fields of Computer Science and Information Technology. Mr George, founder & CEO of Ideabytes, Canada and Mr K Srinivas Reddy, Managing Director of Idea Bytes, India, delivered a talk on "Cloud Computing – A boon to entrepreneurs". Prof Rama Krishnan who was Dean Indian Institute of Space Science and Technology, Director ADRIN addressed the gathering and deliver a detailed talk on "Partial differential equations and Probability in Image processing". Prof. Kesav Vithal Nori Executive Director and Executive Vice President, TCS who has vast experience in the field of IT delivered a detailed talk on "The need for Humanities and Holism in Engineering Studies", to the academicians and researchers during the sessions.

The conference had eight sessions spread over two days with expert's key note addresses and interactive discussions. Total number of participants who has sent their papers and willingness through mail to attend the conference was 305 which include papers from India as well as other countries like Canada, China and Nigeria. Among them, 144 participants from various Universities and Institution across the country have been accepted for presentation in five different sub themes of the conference. From the 144 registered 118 participants presented their papers in the technical sessions. Out of these 8 best papers were selected for Best Paper Awards.

"Research is to see what everybody else has seen, and to think what nobody else has thought."

–Albert Szent-Gyorgyi

"If we knew what it was we were doing, it would not be called research, would it?"

–Albert Einstein

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. Rama Bai	Outcome Base Education and Accreditation.	JNTUH, Hyderabad	14th September, 2015	1 Day
2	Dr. M. Rama Bai Mrs. J. Aruna Shanthi	Gender Sensitization	MGIT, Hyderabad	21st December, 2015	1 Day
3	Mrs. A.V.L Prasuna Mrs .U. Chaitanya 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. A. Swapna Mrs. B. Swetha	Intelligence and Security Informatics	CBIT, Hyderabad	24th & 25th July, 2015	2 Days
4	Mrs. U. Chaitanya	Computational science	Srisatyasai Institute of Higher learning.	14th & 15th December, 2015	2 Days
5	Mr. D. Vijay Kumar	Emerging Trends in Cloud Computing	JNTUH, Hyderabad	21st December, 2015	1 Day
		Web Services and Internet of Things	GNIT, Hyderabad	1st to 5th December, 2015	5 Days

"Change is the end result of all true learning."

–Leo Buscagia

"Education is the most powerful weapon which you can use to change the world."

–Nelson Mandela

Research Publications of Faculty

S. No	Faculty	Details of Publication
1	Dr. M. Rama Bai	Trust Management System for Enhanced Web Service Recommendation, in ICICSIT, held during 28-29 August 2015 at MGIT, Hyderabad. Design of Load Balanced ADHOC on demand Multipath Distance Vector Routing for MANETs, in JNCET, Vol.2, Issue 3, July 2015, ISSN: 2395-5317 Accuracy Analysis of Moment Functions , in ICICSIT-2015, held during 28-29 August 2015 at MGIT , Hyderabad Distance Speed Search using Keyword, in AIETM during 4 – 5 Sep. 2015 at JBREC, Hyderabad An approach for classification of images as centre line or Contour using Skeletenization algorithms, in ICRAESIT-2015 held 6. during 15-16 Dec.2015 at BVRIT, Hyderabad. Pattern based classification of textures, in ICICSE-2015 held during 7-8 August 2015 at Gurunanak Engg., College, Hyderabad.
2	Dr. V. Ramesh	CBP based Bandwidth Reduction in Secured Clouds, in ICICSIT-2015 , held during 28-29 August 2015 at MGIT , Hyderabad. Accuracy Analysis of Moment Functions, in ICICSIT-2015 at MGIT , Hyderabad. Design of Load Balanced ADHOC on demand Multipath Distance Vector Routing for MANETs, in JNCET, Vol.2, Issue 3, July 2015, ISSN: 2395-5317. Pattern based classification of textures, in ICICSE-2015 held during 7-8 August 2015 at Gurunanak Engg., College, Hyderabad. Energy Efficient Routing in Wireless Sensor Networks, in IJRAESIT – 2015 held during 15-16 Dec. 2015 at BVRIT, Hyderabad.
3	A. V. L. Prasuna	Using Drifts identifying the change and Rating its severity of the change in Process Mining , in ICICSIT-2015, held during Data Management using ETL Tool by Informatica Power Centre, in ICICSIT-2015, held during 28-29 August 2015 at MGIT, Hyderabad.
4	G. Kasi Reddy	Performance Evaluation of Communication Mechanisms of Embedded Software, in ICICSIT-2015 , held during 28-29 August 2015 at MGIT , Hyderabad. Efficient content and Querying value Document Annotation, in IJSETR, Vol.04, Issue 44, Oct.2015, ISSN : 2319-8885. A Review on Software Performance Analysis for Early Detection of Latent Faults in Design Models, in IJRITCC – 2015, ISSN: 2321 - 8169, 5678-5686.
5	D. Koteswara Rao	Securely Preserving Data Confidentiality through a Trusted Database, in ICICSIT-2015, held during 28-29 August 2015 at MGIT, Hyderabad
6	U. Chaitanya	GPS base Communication System to Detect Drifts in Moorings at Sea, in ICICSIT-2015, held during 28-29 August 2015 at MGIT ,Hyderabad. A content based Filtering System in OSN User walls, in ICICSIT-2015, held during 28-29 August 2015 at MGIT , Hyderabad Data Management using ETL Tool by Informatica Power Centre , in ICICSIT-2015 at MGIT, Hyderabad
7	D. Vijay Kumar	An Efficient Method to Generate Caption from the Electronic Document for Domain Module" in ICICSIT-2015 , held during 28-29 August 2015 at MGIT, Hyderabad. Design of Load Balanced ADHOC on demand Multipath Distance Vector Routing for MANETs, in JNCET, Vol.2, Issue 3, July 2015
8	J. Aruna Shanthi	Accuracy–Access Control Mechanism for Relational Database" in ICICSIT-2015, held during 28-29 August 2015 at MGIT, Hyd. Comparative Study on Cyber Physical and Conventional Computer Security Measurers, in ICICSIT-2015 at MGIT , Hyderabad Security in Cloud through Homomorphic Encryption , in ICICSIT-2015 , held during 28-29 August 2015 at MGIT, Hyderabad.

Research Publications of Faculty

S. No	Faculty	Details of Publication
9	N. Sree Divya	Keyword based Nearest Neighbor Search, in ICICSIT-2015, held during 28-29 August 2015 at MGIT , Hyderabad.
		Security in Cloud through Homomorphic Encryption, in ICICSIT-2015, held during 28-29 August 2015 at MGIT , Hyderabad.
		Congestion Aware Multi-path Routing Protocol with Load Balancing for MANET, in ICRAESIT – 2015.
10	J. Hima Bindu	Efficient and Secure Management of LOG Records, in ICICSIT-2015 , held during 28-29 August 2015 at MGIT , Hyderabad
		Security in Cloud through Homomorphic Encryption, in ICICSIT-2015 , held during 28-29 August 2015 at MGIT , Hyderabad " Cloud Security issues in Virtualization & Containerization, in ICICSIT-2015, held during 28-29 August 2015 at MGIT, Hyderabad.
		"Automated Test Tools Natir & Selenium", in ICTACSE-2015 held during 3-4 July 2015 at MRECW, Hyderabad with ISBN: 978-93-83038-34-3.
		Security in Cloud Computing through Symmetric Encryption, in AIETM – 2015 at JBREC, Hyderabad during 4-5 Sep. 2015 with ISBN: 978-93-85100-35-2
11	B. Nanditha	Client based Personalized Web Search, in ICICSIT-2015, held during 28-29 August 2015 at MGIT , ,Hyderabad .
		Comparative Study on Cyber Physical and Conventional Computer Security Measurers, in ICICSIT-2015, held during 28-29 August 2015 at MGIT, Hyderabad.
		Congestion Aware Multi-path Routing Protocol with Load Balancing for MANET, in ICRAESIT – 2015 held during 15-16 Dec. 2015 at BVRIT, Hyderabad with ISBN: 978-93-85100-56-7.
12	B. Meenakshi	"Comparative Study on Cyber Physical and Conventional Computer Security Measurers" in ICICSIT-2015 at MGIT, Hyderabad
		A Survey on research Challenges in Cyber Physical System, in ICICSIT-2015 , held during 28-29 August 2015 at MGIT, Hyderabad.
		Security in Cloud Computing through Symmetric Encryption, in AIETM – 2015 at JBREC, Hyderabad during 4-5 Sep. 2015 with ISBN: 978-93-85100-35-2
		Comparative Study on Cyber Physical and Conventional Computer Security Measurers, in ICICSIT-2015 , held during 28-29 August 2015 at MGIT, Hyderabad
13	Mrs. Ch. Lakshmi Kumari	Comparative Study on Cyber Physical and Conventional Computer Security Measurers, in ICICSIT-2015 , held during 28-29 August 2015 at MGIT , Hyderabad
		Security in Cloud through Homomorphic Encryption, in ICICSIT-2015, held during 28-29 August 2015 at MGIT, Hyderabad
		A Survey on research Challenges in Cyber Physical System, in ICICSIT-2015 at MGIT, Hyderabad
		Security in Cloud Computing through Symmetric Encryption, in AIETM – 2015 at JBREC, Hyderabad during 4-5 Sep. 2015 with ISBN: 978-93-85100-35-2
14	A. Swapna	A Survey on research Challenges in Cyber Physical System, in ICICSIT-2015 at MGIT, Hyderabad.
15	Ch. Anupama	Data Management using ETL Tool by Informatica Power Centre, in ICICSIT-2015 at MGIT, Hyderabad.

"Research is formalized curiosity, it is poking and prying with a purpose."

–Zora N. H.

Department of Information Technology

D– Block

Mahatma Gandhi Institute of Technology
Gandipet
Hyderabad-500075

Phone:040-24193057
Fax: 040-24193057
E-mail: it@mgit.ac.in

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

Forth Coming Events

The Department of IT is planning to conduct the Yukti-2016— A National Level Technical Symposium in the month of March 2016 .

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.