BITS NEWS E-Bulletin

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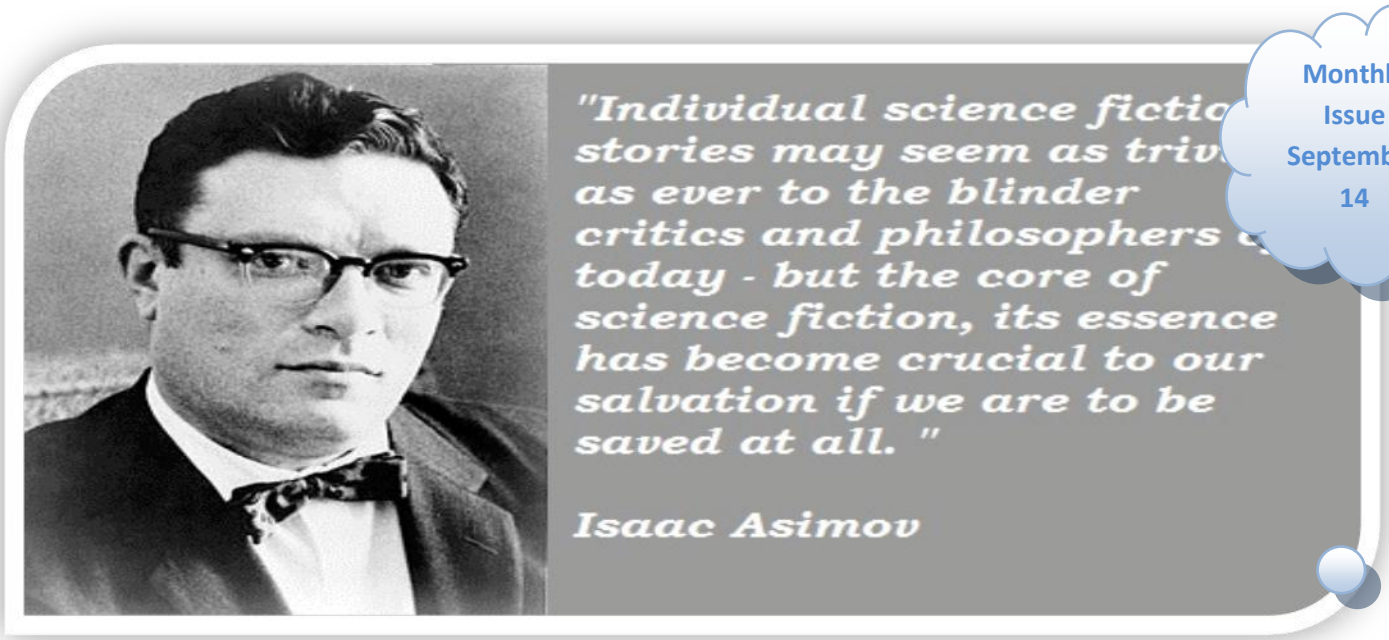
DEPARTMENT OF INFORMATION TECHNOLOGY



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IT is the area of managing technology and spans a wide variety of areas that include computer software, information systems, computer hardware, programming languages but are not limited to things such as processes, and data constructs.

IT professionals perform a variety of functions (IT Disciplines/Competencies) that ranges from installing applications to designing complex computer networks and information databases. A few of the duties that IT professionals perform may include data management, networking, engineering computer hardware, database and software design, as well as management and administration of entire systems

Teacher Incharge
Ms. P. R. Maidamwar

Program Coordinator
Prof. N. A. Chavhan

Editor (Students):

Chinmay Deshpande (VIISem) **Pooja Dharra (VII Sem)** **Sushmita Guin (V Sem)** **Animekh Misra (III Sem)**

Department Vision and Mission

Vision

- **To achieve excellent standards of quality education by keeping pace with rapidly changing technologies.**
- **To create technical manpower of global standards with capabilities of accepting new challenges in Information Technology.**

Mission

- **To create competent and trained professionals in information technology who shall contribute towards the advancement of engineering, science and technology & useful for the nation.**
- **To impart quality and value based education to raise satisfaction level of all stakeholders.**
- **To apply new developments in Information Management and provide all possible support to promote research & development**

Programme Educational Objectives

The educational objectives of the Information Technology programme are designed to produce competent engineers who are ready to contribute effectively to the advancement of information technology causes and to accommodate the needs of the profession. The graduates shall:

1. **Practice Information Technology in the general disciplines of design, development & deployment of software and integration of existing technologies for e-governance nationwide.**
2. **Apply fundamental technical knowledge and skills to provide workable solutions to problems in various areas of IT.**
3. **Pursue higher education, research and development and deploy creative efforts in the area of Information Technology.**
4. **Use the acquired knowledge in societal and environmental sensitive manner with professional ethics in a team.**

Programme Outcomes

1. **PO1: Apply the knowledge of mathematics, science, engineering skills and information technology deployment that will contribute towards the advancement of engineering, science and technology & useful for the nation.**
2. **PO2: Identify, formulate, investigate, analyze & conduct investigations of complex engineering problems using state of the art knowledge and research methods, analysis and interpretation of data, and synthesis of the information to provide valid conclusions & solutions.**
3. **PO3: Develop solutions for complex engineering problems and design system component or processes that meet the specified needs considerations for public health and safety, and the cultural, societal, and environmental considerations.**
4. **PO4: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling of complex engineering activities, with an understanding of their limitations.**
5. **PO5: Apply contextual knowledge to assess societal, environmental, legal, health, safety, cultural and ethical issues and the consequent responsibilities relevant to IT profession.**
6. **PO6: Function effectively as an individual and as a member or leader in diverse teams and in multi disciplinary environment.**
7. **PO7: Communicate effectively on complex engineering activities with the engineering community and with society at large, through reports, make effective presentations and give and receive clear instructions.**
8. **PO8: Demonstrate knowledge and understanding of project management, finance management principles and systems working and apply these to manage large IT projects in multidisciplinary environments.**
9. **PO9: Recognize the need for independent and lifelong learning to remain active in profession and for personal growth.**

INDUSTRIAL VISIT ORGANIZED BY INFORMATION TECHNOLOGY DEPARTMENT, GHRCE, NAGPUR AT ADCC INFOCAD PVT. LTD.

Department of Information Technology, G. H. Raisoni College of Engineering had organized an Industrial Visit at **ADCC Infocad Pvt. Ltd., Nagpur** on 16th September 2014. It was organized by Prof. G. S. Khekare under the guidance of Prof. N. A. Chavhan, Head of department, Information Technology.

ADCC Infocad Pvt. Ltd.has emerged as global Premier Software Solution provider through its Alliance with World Leaders like Autodesk Inc. USA world's biggest Design Content company, Mathworks (Matlab), Dassault (Catia), Adobe, Digital Globe (High Resolution Satellite Imageries), Intergraph (Erdas Imaging & LPS Software and extensions) Siemens, Corel, Sanako (Language Lab), Microsoft, HP & Tally in addition ADCC has been appointed as PAN INDIA distributor/Reseller for Trimble-Building Construction Division for Education business.

We have been.The purpose of the visit was to make the students aware of their services provided by continual advancement in the infrastructure, technology and resources to various engineering industry verticals. **ADCC Infocad** is a specialist in GIS & Engineering services solutions company servicing clients across a range of corporate and government segments helping improve their engineering efficiency, support global footprint and improve competitiveness. Leveraging technology, domain knowledge & our robust work planning methodology to ensure an effective delivery model for all our

services projects, we have emerged as a Partner-of-choice for leading Indian companies and Government. Our Project teams seamlessly integrate into our client project development team & environment and act as a virtual extension of their GIS & Engineering enterprise solutions Then their strategic partners explained about various kinds of solutions or products they provide to their clients. Also they explained students how to choose a career and helped them learn about their interests, values, skills and personality type.

There were 72 students and 2 staff members present for visit of III Semester. Faculty members, Prof. G. S. Khekare, Prof. T. K. Khan & Prof. A. S. Nagdive along with student coordinators left no stone unturned to make this visit a grant success.

ALUMNI LECTURE ON RECENT TRENDS IN IT SECTOR

Department of Informaton Technology ,G.H. Raisoni College of Engineering, Nagpur had organized Expert Lecture on the topic **"Recent Trends in IT Sector"** on 4th Aug 2014 for V semester students. The speakers were **Dheeraj Anand, Alumni Foundation Batch**, Amazon Hyderabad. Speaker gave the brief introduction to the theory and about recent trends of Information Technology and Computer Science. The lecture emphasized on understanding what is Information Technology and difference between Information technology and Computer Science and covered applications of Information Technology.

This lecture was aimed to provide equal opportunities and access for all students to enjoy the benefits and privileges of the class and its curriculum and also covered the overview of research. This Lecture included the recent trends of Information Technology and Computer Science. First what is IT, information technology is the use of computers and software to manage information. The information technology department of a large company would be responsible for storing information, protecting information, processing the information, transmitting the information as necessary, and later retrieving information as necessary.

Brief overview of recent trends in Information Technology such as generation mobile devices and mobile apps: They are the smart phones and tablets. The different varieties of smart mobile devices incorporate mobile applications such as iOS, Androids, Symbian OS, web OS, Windows Phone and the Blackberry OS/QNX. Their usage is already increasing globally and is quickly replacing traditional handsets. The next generation mobile devices are slowly gaining momentum with the sale of PCs.

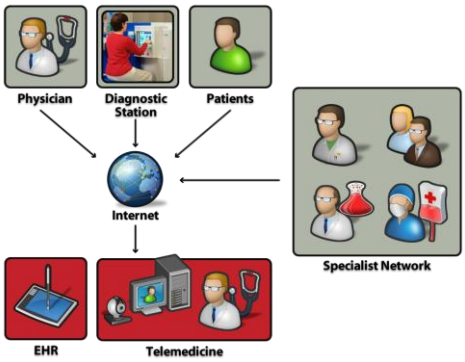
The lecture finished with a questioning session, the goal of which was to identify the important questions and issues raised during the lecture.

INDEPENDENCE DAY CELEBRATION

G.H .Raisoni College of Engineering celebrated 68th Independence day on 15th August 2014.The National Flag was hosted by Ms. Rutuja Mahajan, VII semester student of Information Technology department as she was college topper in 2013-14.

Flag hosting ceremony was followed by 'Blood Donation Camp' at

G-21. Students had actively participated in this camp. All faculty members of respective department appreciated for enthusiasm shown by students. Interdepartmental 'Patriotic Musical Skit



Competition' was held in auditorium. Students of Information Technology had participated in it. The participants of all the departments left no stone unturned to impress the judges as well as the audience by performing their respective skits with bubbling patriotic feelings.

The Chief Guest addressed the audience and praised the efforts of the participants for creating a patriotic environment on the Independence Day.

TELEMEDICINES AND TELEHEALTH

Studies consistently show the benefit of telehealth, especially in rural settings that do not have access to the same resources metropolitan areas may have. **Telemedicine** is the use of telecommunication and information technologies in order to provide clinical health care at a distance. It helps eliminate distance barriers and can improve access to medical services that would often not be consistently available

in distant rural communities. It is also used to save lives in critical care and emergency situations. Telemedicine also can eliminate the possible transmission of infectious diseases or parasites between patients and medical staff. This is particularly an issue where MRSA is a concern.

Recent developments in mobile collaboration technology can allow healthcare professionals in multiple locations to share information and discuss patient issues as if they were in the same place. Remote patient monitoring through mobile technology can reduce the need for outpatient visits and enable remote prescription verification and drug administration oversight, potentially significantly reducing the overall cost of medical care. Telemedicine can also facilitate medical education by allowing workers to observe experts in their fields and share best practices more easily.

Submitted By
Animekh Misra
III Sem IT