

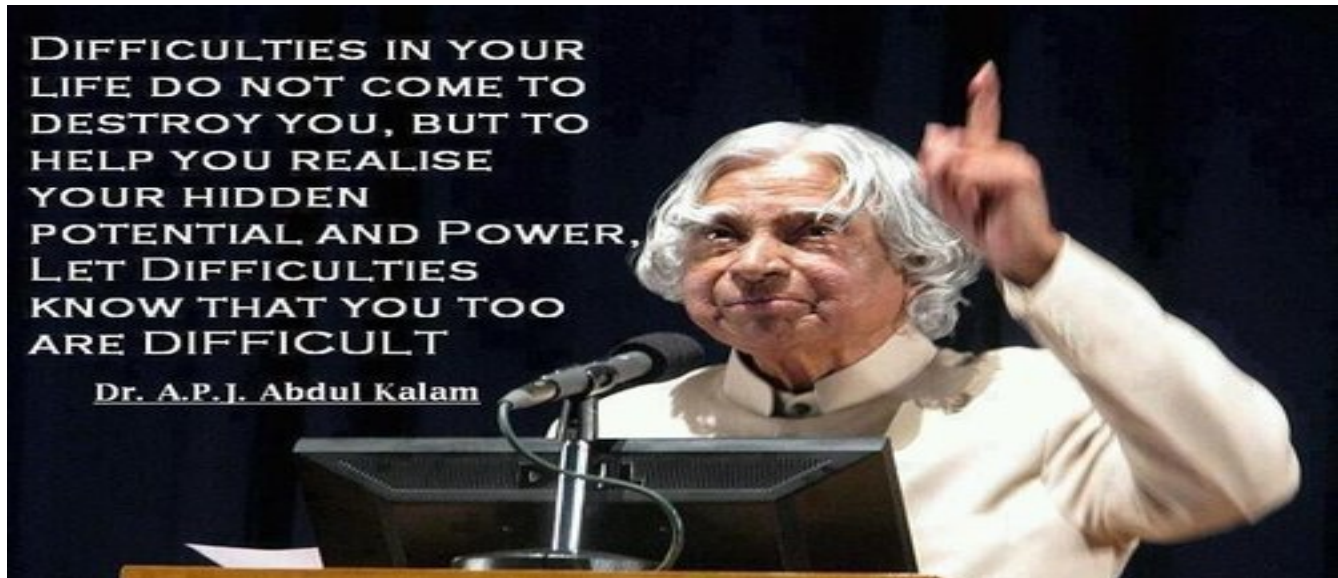


# BITS NEWS E-BULLETIN



UNDER CSI

## DEPARTMENT OF INFORMATION TECHNOLOGY



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.

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## 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.**

## GUEST LECTURE BY PROF. S. U. NIMBHORKAR ON ELLIPTIC CURVE CRYPTOGRAPHY



Information Technology department of G.H. Raisoni College of Engineering, Nagpur had organized Expert Lecture on the topic “**Elliptic Curve Cryptography**” on 16<sup>th</sup> March 2016 for VI semester students. The resource person was **Prof. S. U. Nimbhorkar, Assistant Professor, Computer Science & Engineering, G. H. Raisoni College of Engineering, Nagpur.**

In this lecture, **speaker** explained about elliptic curves, operations on elliptic curves in computer security. Students felt that this was useful for their exam point of view. Her valuable experience in the particular subject was very helpful to understand this subject to the student and for pursuing their further research on this stream. She had wonderful interaction with the students and given valuable guidelines to them about recent studies under elliptic curve cryptography.

The session ended with a question answer round, where students clarified their doubts about different issues in elliptic curve cryptography.. The lecture was very much appreciated by all students.

## GUEST LECTURE BY PROF. B. K. KAPSE ON DESIGN & ANALYSIS OF ALGORITHMS



Department of Informaton Technology ,G.H .Raisoni College of Engineering, Nagpur had organized Expert Lecture on the topic “**Design & Analysis of Algorithms**” on 16<sup>th</sup> March 2016 for IV semester students. The resource person was **Mr. Bharat Kapse, Adjunct Professor**, Computer Science & Engineering, VNIT, Nagpur.

In this lecture, **speaker** explained the basic concepts in graph theory giving the effective knowledge on graph theory to the students and how can to analyze the applications of graph theory. Students felt that this was useful for their exam point of view.

The students interacted lively with **Mr. Bharat Kapse**. It was very interactive session which has cleared all the doubts in students mind.