

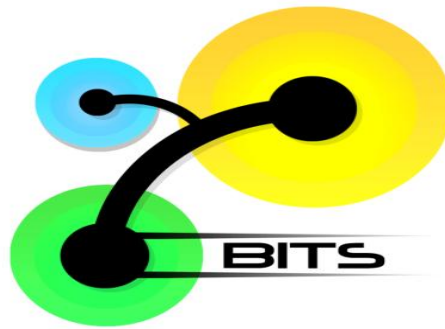


# BITS NEWS E-BULLETIN



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

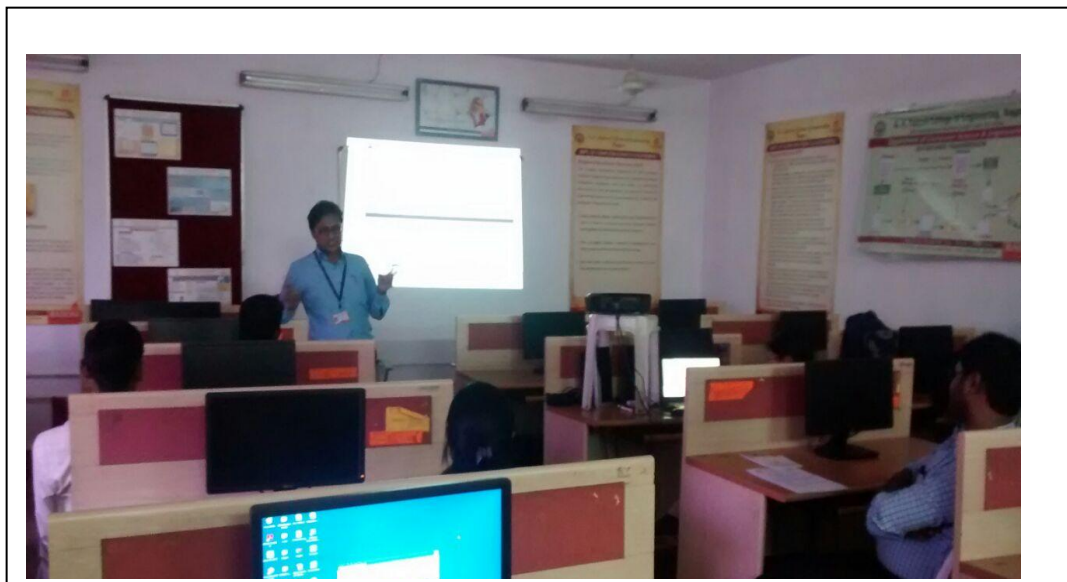
The educational objectives of the Information Technology programme are designed to produce competent engineers who are ready to contribute effectively to the advancement of information technology causes and to accommodate the needs of the profession. The graduates shall:

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.**

## **PROF. U. P. SAKHARE FROM INFORMATION ATTENDED SHORT TERM TRAINING PROGRAM (STTP) DURING 25 TO 29TH MAY 2015 AT SVNIT, SURAT**



Short term Training program (STTP) on Privacy Preservation on Data Mining was organized by SVNIT Surat from 25 to 29th May 2015. Prof. U. P. Sakhare from Information Technology Dept. participated in the workshop.

The workshop was focused on various real life privacy preservation applications ,cryptographic based approach for privacy preserving Data Mining, examples of secure computation of data mining algorithms and case studies on it. Different experienced Professors from SVNIT conducted the session on different areas. Prof. Sankita Patel gave introduction of Privacy Preservation. Dr. Balakrishnan Ramadoss talked about data mining techniques. Prof. Sankita Patel and Dr. Jinwala Department of Computer Engineering were the co-coordinator of the workshop

Based on the undertaken training, seminar was delivered by Prof. Prof. U. P. Sakhare in C-06 lab of CSE Department to share the knowledge and experience based on the training attended on 1<sup>st</sup> June 2014. Around 15 faculty members of CSE, ETC, IT department were present for the seminar.

## FACULTY INDUCTION & TRAINING WORKSHOP ATTENDED BY FACULTY OF INFORMATION TECHNOLOGY DEPARTMENT

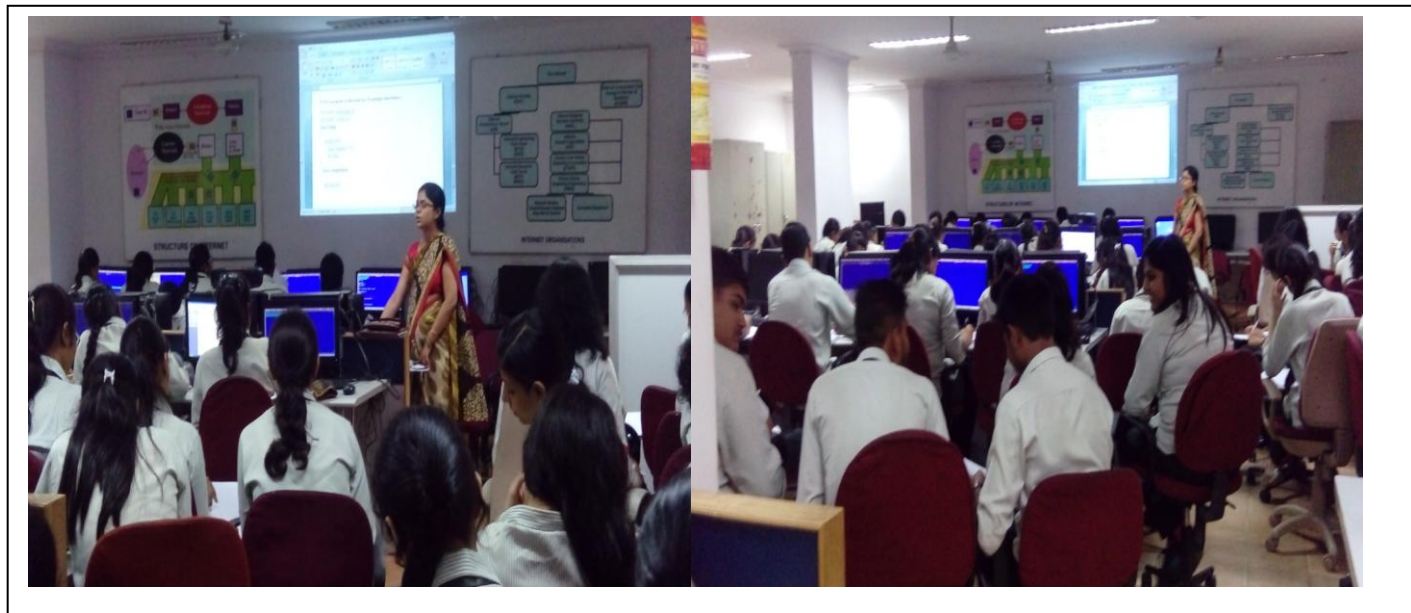


Prof. Sampada Wazalwar and Prof. Jitendra Madarkar , Faculty of Information Technology department , G. H. Raisoni College of Engineering attended 200 hours workshop on “**Faculty Induction & Training Workshop**” at G. H. Raisoni Academy for Human Excellence from 1<sup>st</sup> May to 31<sup>st</sup> May 2015.

The objective of this workshop was to to enhance and develop the professional and personal skills of its faculty members. It focused on enhancing functional area expertise, improving one's classroom delivery both as a teacher and trainer, enhancing abilities for conducting meaningful research. Faculty members of Raisoni group were trained in this workshop.



## **SKILL ENHANCEMENT PROGRAM CONDUCTED BY IT DEPARTMENT, GHRCE NAGPUR**



Skill Enhancement Program (SEP) was conducted from 22<sup>nd</sup> to 29<sup>th</sup> June 2015 for III semester CSE/IT students. There were 3 different sessions: 1) Object Oriented Programming with JAVA 2) Oracle with DBMS 3) ASP .NET with HTML.

The aim of workshop was to bring students of CSE and IT streams in to one roof and chance those to broaden technical knowledge of the students with the latest trends and technologies followed in the industry.

First session introduced fundamentals of object-oriented programming, like objects and classes, state, conditions, loops, collections, error handling and an overview of inheritance. Also it gave introduction to the fundamental concepts of object-oriented software engineering and development, such as classes, inheritance.

Second session provided a short description of what DBMS can do and how full fledged DBMS such as PostgreSQL compare with software like MS Excel or MS Access for storing and querying scientific data. Topics covered during the workshop include: When to (not to) use a DBMS, Concepts of database management and organization, How to organize biodiversity data in databases, Installation of PostgreSQL, Importing data into PostgreSQL, Basics

of the SQL language, More advanced SQL functions, Connecting LibreOffice Base with PostgreSQL. It focused on hands-on learning through exercises with an example database. Short presentations were given by the lecturer to introduce each section.

Third session introduces about ASP.NET MVC to allow programmers to build dynamic web sites, web applications and web services, the fastest growing Handy WEB Projects. The objective of the workshop is to enable the participants to develop WEB applications on their own and to train them to use Visual Studio 2010 as IDE.

The session ended with a question answer round, where students clarified their doubts about different versions of Java and its platform independence. The lecture was very much appreciated by all students and faculty members.