

## 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



*"Individual science fiction stories may seem as trivial as ever to the blinder critics and philosophers of today - but the core of science fiction, its essence has become crucial to our salvation if we are to be saved at all. "*

*Isaac Asimov*

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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

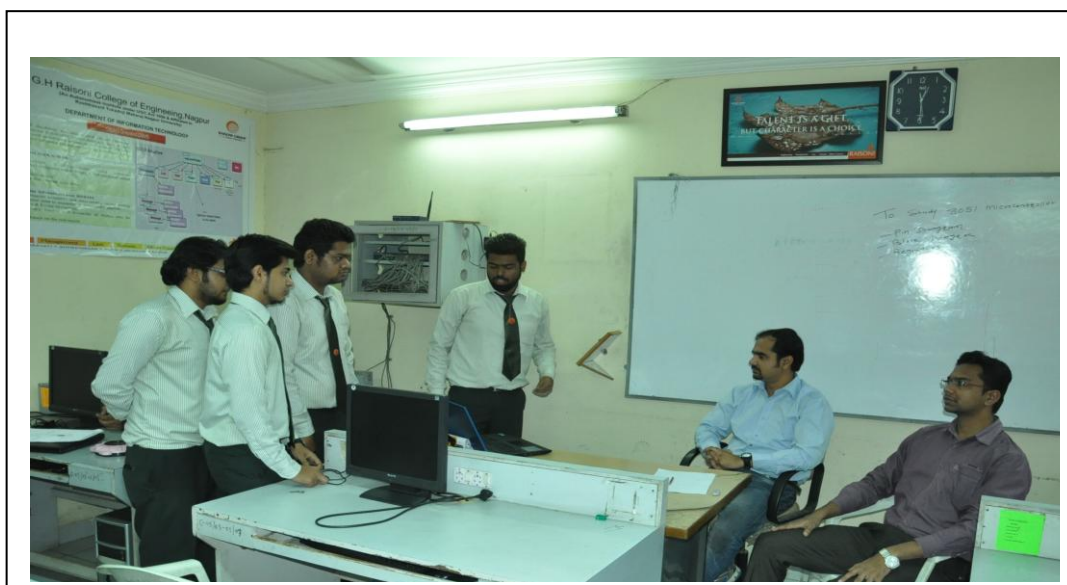
The educational objectives of the Information Technology programme are designed to produce competent engineers who are ready to contribute effectively to the advancement of information technology causes and to accommodate the needs of the profession. The graduates shall:

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.**

## **UG PROJECT EXHIBITION & COMPETITION**



Department of Information Technology ,G.H. Raisoni College of Engineering, Nagpur had organized “UG Project Exhibition & Competition– 2014-15” on 10<sup>th</sup> March 2015 under TEQIP-II.

This Exhibition & Competition was inaugurated by the hands of **Mr. Shakal Shukla ,Senior Team Lead , Persistent Systems Pvt. Ltd.** in the presence of Dr. P. R. Bajaj, Director & Prof. N. A. Chavhan, HOD(IT), G.H.R.C.E Nagpur. The judge for this competition was Mr. Shakal Shukla ,Senior Team Lead , Persistent Systems Pvt. Ltd.

There were total 20 projects including 4 Hardware based and 16 Software based models presented in this exhibition by students. The projects were related with different areas of Image Processing, Data Base Management Systems, Android OS, Data Mining, Embedded Systems Cloud Computing and RTOS. Two prizes were given to the best projects in the department.

This Project-Exhibition was a platform for young innovators and aspirants who are passionate in meeting challenges of days to come. This provided platform for budding youngsters to showcase their hidden talents through their models. Nearly 72 students and 13 staff members were present in exhibition.

Prof. N. A. Chavhan (HOD-IT) guided & coordinated with staff members to organize the event. Dr. P. R .Bajaj & Prof. N. A. Chavhan (HOD-IT) congratulated the students for the success of exhibition.



## ACADEMIC AUDIT

Academic audit of teaching learning process of Even & Odd semester of 2014 was conducted on 14<sup>th</sup> March 2015. External Expert evaluated performance on parameters like quality of course material used by faculties, Quality of question papers, quality of TAE, student feedback, result analysis, faculty interaction and advanced topic. Dr. U. A. Deshpande, Professor VNIT was an external expert. He evaluated subject files of UG subjects and interacted with faculties. According to criteria, markings were done and suggestions were given by Dr. U. A. Deshpande.

## GUEST LECTURE 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 7<sup>th</sup> April for IV semester students. The resource person was **Mr. Bharat Kapse, Assistant Professor**, Rajiv Gandhi College of Engineering & Research, 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.

## MY INCREDIBLE EXPERIENCE AS CLEANLINESS VOLUNTEER

I am student of G H Raisoni College of engineering BE-3<sup>rd</sup> year (IT).

My college has an active NSS group. I am member of this group. On 30<sup>th</sup> January i.e. Mahatma Gandhi's Death anniversary, We NSS member decided to create respect in peoples mind for cleanliness. By picking up brooms in our own hands cleaning up public places like Railway station and the promenade at Futala lake. What made this an incredible experience for us was that we saw and immediate and positive change in peoples sense of responsibility towards cleanliness.

Experience 1: While performing our cleanliness drive peeling of oranges throwing them on the platform a women passengers sitting inside compartment suddenly our 2-3 members gone and said madam please don't throw it on platform if you find difficult to throw gave it to us we will throw it in dustbin. She realizes her mistake and said I will collect and put it in dustbin.

Experience 2: Young man in his mid 30's saw us picking up the litter/trash on the platform. He asked us for gloves and he too starts picking up the garbage allowing with us.

Experience 3: People felt good by our effort that one traveler gift a "swami Vivekanand" book for college's library and another gentleman treated all of us free tea.

After this all the 80 members of our group visited Futala Lake and cleaned up the entire promenade by the lakes side. We followed this up by performing a ten-min-long skit near the lake on the subject of gandhiji and cleanliness.

The skit was highly appreciated by the people who had stopped by to watch it. We are going to perform a skit on road safety at children Traffic Park in the future.

On behalf of all NSS members, I wish to thank the Director of the college Dr.Preeti Bajaj mam.

And our NSS Teacher Incharge Prof. S.S.Nimkar & Prof .B.J.Godbole for their support and encouragement to all our activities.

Akshay B.Londhe  
VI Sem (IT)