

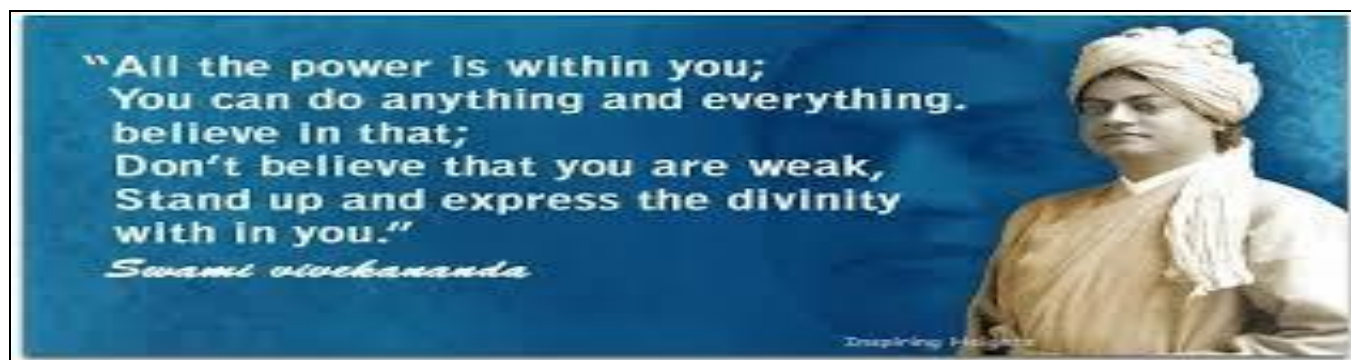


BITS NEWS E-BULLETIN



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 standard of quality education by keeping pace with rapidly changing technologies and to create technical manpower of global standards with capabilities of accepting new challenges in Information Technology.

MISSION

- To equip our graduates with knowledge and expertise to contribute significantly to the knowledge and information industry .
- Promoting collaborative research through special interest groups, research laboratories and Industry Institute Interactions.
- To nurture interpersonal and entrepreneurial skills to provide leadership in the information industries.

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.

PROGRAM SPECIFIC OUTCOME

Graduates shall

PSO1 -Utilize the hands on experience of industry internship leading to take up live problems in IT industries .

PSO2 - Apply core concepts of information technology in android/iOS Application & Product Development.

PSO3 – Demonstrate the skills in Web based technologies and information management.

PROGRAMME OUTCOMES

Engineering Graduates will be able to:

- 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, review 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.

Short Term Training Program on “Artificial Intelligence and Machine Learning”

Department of Information Technology, G.H. Raisoni College of Engineering, Nagpur-16 has organized Short Term Training Program [STTP] on “**Artificial Intelligence and Machine Learning**” in the association with AICTE, ISTE New Delhi and IEEE Nagpur Sub-Section

This Short Term Training Program aims to enhance knowledge of faculty, researchers with the latest advancements and future directions in the areas of Artificial Intelligence and Machine Learning. The primary objective of the program is to enhance the skills of faculties/ researchers in advance domains of AI and ML also to encourage the use of various AI and ML technologies. Resource persons for this workshop were various industry experts namely Mr. Mahesh Rakheja, Mr. Tanay Shah, Dr. Mukta Paliwal. They through light on various concepts of the said topic also lot much emphasis was given on taking hands on practice with this latest technology. There were total 27 participants in this STTP.



This event was coordinated by Dr. Gopal Sakarkar , Prof. T H Khan, HOD.All IT department faculty members work hard for the success of this event .