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NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY



VISION OF THE INSTITUTE

To produce professionally Excellent, Knowledgeable, Globally Competitive and Socially responsible Engineers and Entrepreneurs.

MISSION OF THE INSTITUTE

M1	Providing Quality Education through state-of-art Infrastructure, Laboratories and Committed Staff.
M2	Establishing a continuous Industry - Institute Interaction, Participation and Collaboration to contribute Skilled Engineers.
M3	Involving Faculty members and Students in Research and Development to become globally competitive and for the betterment of the Society.
M4	Developing Human values, social values, Entrepreneurship skills and Professional Ethics among the Technocrats.



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PROGRAM EDUCATIONAL OBJECTIVES(PEOs)

PEO 1	Excel in applying technical knowledge to develop practical IT solutions for real-world challenges.
PEO 2	Pursue lifelong learning, staying updated with IT advancements and adapting to emerging technologies for industry relevance.
PEO 3	Exhibit strong leadership, teamwork, and communication skills to drive IT projects and achieve common goals effectively.
PEO 4	Empowering IT professionals to work with ethical and social responsibility, driving positive impacts on technology and society.



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PROGRAM SPECIFIC OUTCOMES(PSOs)

PSO 1	Understand and analyze complex problems, design efficient algorithms, and implement software solutions using various programming languages and tools.
PSO 2	Exhibit proficiency in Artificial Intelligence and Machine Learning for providing solutions to real world problems in Industry and Research establishments.
PSO 3	Design, develop, and implement software systems that meet user requirements, considering factors like usability, security, and scalability.



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PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and computing to solve Information Technology related problems.
2. **Problem Analysis:** Identify, formulate, review relevant research literature, and analyze complex Information Technology problems, arriving at well-founded conclusions by leveraging foundational principles of mathematics, natural sciences, and engineering sciences.
3. **Design / Development of Solutions:** Create solutions for intricate Information Technology challenges and design system components or processes that fulfill specified requirements while giving due regard to public health and safety, as well as cultural, societal, and environmental factors.
4. **Conduct Investigations of Complex Problems:** Investigate complex Information Technology problems using research methods, data analysis, and data interpretation to derive valid conclusions.
5. **Modern tool usage:** Use modern engineering and IT tools, software, and equipment to develop complex software projects efficiently.
6. **The engineer and society:** Apply engineering solutions in a societal context, considering ethical, legal, cultural, economic, and environmental aspects.
7. **Environment and sustainability:** Understand the Impact of Information Technology 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 within the field of information technology.
9. **Individual and Team Work:** Function effectively as an individual and as a member or leader in diverse teams, and multidisciplinary settings.
10. **Communication:** Effectively communicate complex information technology concepts to both IT community and society at large, including the ability to write reports, design documentation, make presentations, and give and receive clear instructions.
11. **Project Management and Finance:** Apply Information Technology and management principles to proficiently manage projects as an individual and leader within software development environments.
12. **Life-Long Learning:** Recognize the need for lifelong learning to remain current in the dynamic IT environment.

Student article On

Cloud Security

P.Hemanth

November-2019

Introduction:

In an era dominated by digital transformation, businesses are increasingly turning to cloud computing to streamline operations, enhance scalability, and foster innovation. However, as organizations embrace the cloud, the importance of robust cloud security cannot be overstated. This article aims to provide a comprehensive guide to understanding and implementing effective cloud security measures to safeguard sensitive data, maintain compliance, and build trust in the digital realm.

I. Understanding Cloud Security:

a. Shared Responsibility Model:

Define the shared responsibility model and delineate the responsibilities of cloud service providers (CSPs) and customers. Emphasize the need for a collaborative approach to security between the CSP and the organization.

b. Threat Landscape:

Explore the evolving threat landscape in the cloud, including common threats such as data breaches, unauthorized access, and distributed denial of service (DDoS) attacks. Discuss the importance of threat intelligence and continuous monitoring.

II. Key Cloud Security Principles:

a. Data Encryption: Highlight the role of encryption in protecting data at rest, in transit, and during processing. Discuss the importance of managing encryption keys securely.

b. Identity and Access Management (IAM): Explain the significance of robust IAM policies in controlling access to cloud resources. Emphasize the implementation of the principle of least privilege.

c. Multi-Factor Authentication (MFA): Advocate for the use of MFA to add an additional layer of security to user authentication processes. Provide examples of MFA implementation in cloud environments.

III. Compliance and Legal Considerations:

a. Regulatory Compliance: Address the importance of adhering to industry-specific regulations (e.g., GDPR, HIPAA) when storing and processing data in the cloud. Discuss how cloud providers often offer compliance tools and features to assist organizations in meeting regulatory requirements.

MOU'S

S.NO	NAME OF THE ORGANIZATION	SERVICE PROVIDED BY THE ORGANIZATION
1.	RK COLLEGE OF ENGINEERING	Workshops/Seminar/FDP



