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VOL-26

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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.



NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY



VISION OF THE DEPARTMENT

Empower Information Technology students with outstanding skills, well-informed, globally-minded, and socially-conscious engineers and innovators

MISSION OF THE DEPARTMENT

M1	Provide a comprehensive and up-to-date curriculum to empower students with excellent IT skills and knowledge.
M2	Cultivate a global perspective by exposing students to international IT trends and practices.
M3	Create an entrepreneurial ecosystem that nurtures innovative thinking and encourages IT students to become successful entrepreneurs.
M4	Promote ethical practices and social responsibility in the IT industry.



NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY



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.



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.

EVENTS

1.Green Tech



**Our department! Our college!! It is our responsibility!!!
Nature is the only thing that excites the average man
who is tired with many tasks.NRI Engineering college
" Department of Information Technology Helping
Hands Club an Under the auspices of IT Sparks, all the
students came together to educate the students about
the importance of planting trees through the program
"GREEN TECH" on 24 june 2023.**

EVENTS**2. INDEPENDENCE DAY**

We proudly celebrate our IT department's triumphant Independence Day event, a testament to teamwork and dedication. In just a short span, we united to create a memorable celebration that embodies the spirit of freedom and innovation. Together, we proved that with passion and collaboration, anything is possible.



2023-2024

EVENTS

3. WORLD ENTREPRENEURS DAY



In a vibrant celebration organized by the Department of Information Technology, the "World Entrepreneurship Day" was marked with enthusiasm. The event, chaired by Dr. Venkatrao, focused on inspiring students to venture into entrepreneurship. Various activities, including essay competitions and cultural programs, aimed to impart knowledge on startups and innovation

EVENTS

5. ENGINEERS DAY



We are celebrating Engineers day on 15th September on the occasion of Mokshagundam Vishweswaraya Birthday.

We are conducted different types of technical events and awarded prizes to the winners.



2023-2024

EVENTS

6. DUSSEHRA



Under the auspices of "IT Department - IT Sparks" the "Dussehra Mahotsavam Celebrations" were organized like a family celebration of IT Department



2023-2024

GUEST LECTURES

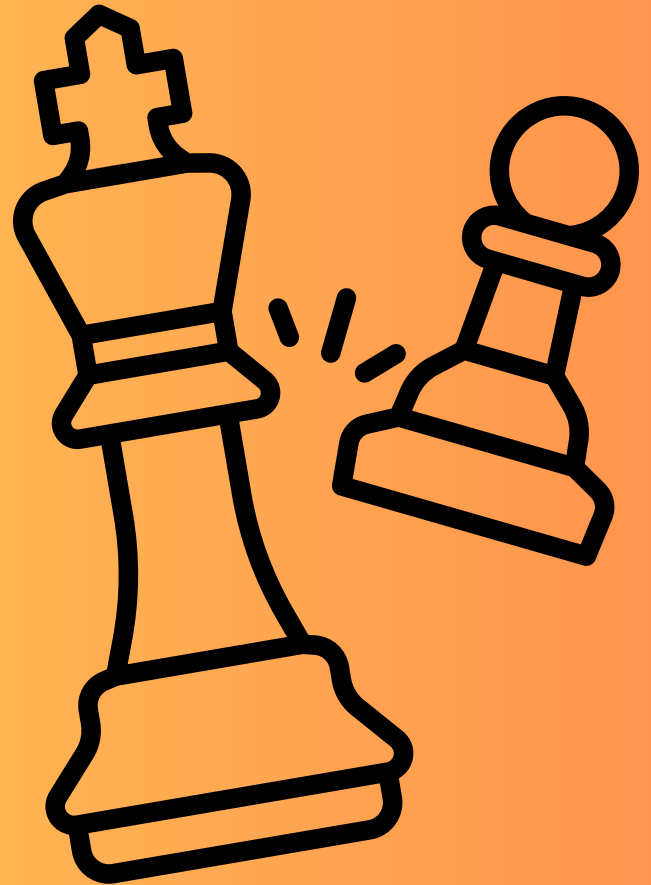


In our Information Technology Department, We are organizing Guest Lectures. This Lectures gives motivation and ideology to the students for their future.



2023-2024

STUDENT ACHIEVEMENTS



BJSK Ranadheer of 3rd Year ,IT got selected in Chess University Team selection trails for Southzone 2023-24 and became captain for the JNTUK Chess Team for the academic year 2023-24

Student article By

Y. BABY RAMYA

November-2023



CODE TO CLOUD



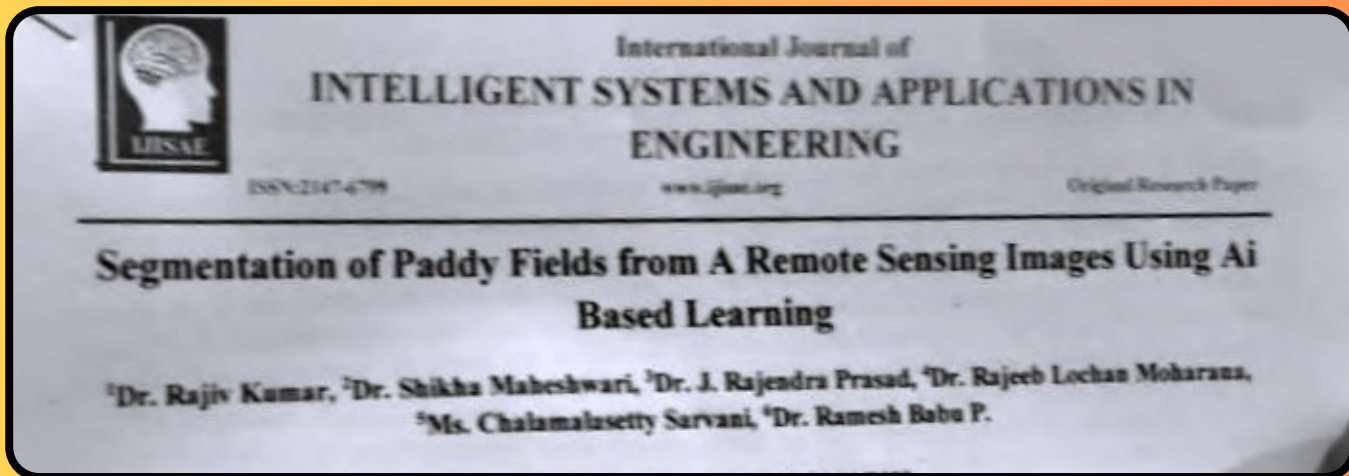
"Code to Cloud" refers to the process of developing software applications and deploying them onto cloud infrastructure. Here's an overview of the typical steps involved:

- 1. Development and Version Control:** Write and manage your code using version control systems like Git. This allows collaboration and tracking changes made to the codebase.
- 2. Continuous Integration/Continuous Deployment (CI/CD):** Set up a CI/CD pipeline to automate building, testing, and deploying your application. Tools like Jenkins, Travis CI, GitLab CI/CD, or GitHub Actions are commonly used for this purpose.
- 3. Containerization:** Use containerization platforms like Docker to package your application and its dependencies into standardized units called containers. This ensures consistency across different environments.
- 4. Container Orchestration:** For managing and scaling containerized applications, use orchestration tools like Kubernetes, Docker Swarm, or Amazon ECS. These tools help deploy, manage, and scale containers across clusters of machines.
- 5. Cloud Platform Services:** Choose a cloud service provider (e.g., AWS, Azure, Google Cloud) and leverage its services. For instance, use AWS Elastic Beanstalk, Azure App Service, or Google App Engine for simplified deployment and management of applications.



2023-2024

FACULTY AS PARTICIAPTED IN FACULTY DEVELOPMENT/TRAINING



SEGMENTATION OF PADDY FIELDS FROM A REMOTE SENSING IMAGES USING AI BASED LEARNING

was published by **DR.J.Rajendra Prasad (HOD -IT DEPT)**
on 30/11/2023



PLACEMENTS

Sl. No	Roll No	Branch	SECTION	Full Name	PLACED COMPANY
1	20KN1A1201	IT	A	ADDAGIRI DEVI PRIYA	SkillHaac
2	20KN1A1222	IT	A	GUJJULA SRAVANTHI	Technologics & SkillHaac
3	20KN1A1231	IT	A	VYSHNAVI LAGUTHOTI	CONSTIENT
4	20KN1A1252	IT	A	RAVULAPALLI SRIJA	Technologics
5	20KN1A1256	IT	A	SHAIK ARSHIYA MOBEEN	CONSTIENT
6	20KN1A1258	IT	A	TALASILA SAI KIRAN	Technologics
7	20KN1A1259	IT	A	THOTA SRI MANJUNADHA	SkillHaac
8	21KN5A1201	IT	A	AKKI VENKATA CHENNAKESAVA SAI PAVAN	SkillHaac

