



NEWS BITES

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VOL-24

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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.



NRI INSTITUTE OF TECHNOLOGY

INFORMATION TECHNOLOGY



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. INDEPENDENCE DAY



"At our IT department, Independence Day celebrations fuse patriotism with tech brilliance, uniting students and faculty in virtual events and coding challenges. It's a dynamic blend of national pride and technological innovation, symbolizing our commitment to excellence in the world of IT."

EVENTS

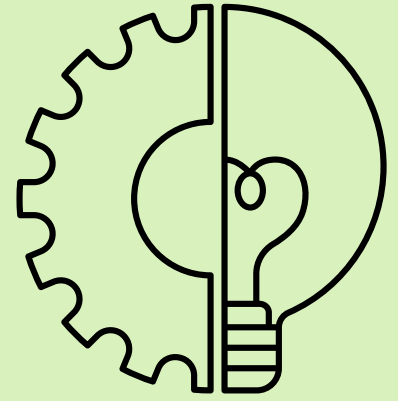
1. ENTREPRENEURS DAY



Within our IT realm, Entrepreneur's Day ignites a celebration of visionary minds and disruptive innovations. We salute the pioneers shaping technology's future, fostering a culture of relentless creativity. Amid festivities, we reflect on entrepreneurial resilience, inspiring a collaborative spirit that propels our department to new heights. Here's to the enterprising journey and limitless possibilities ahead!

EVENTS

3. ENGINEERS DAY

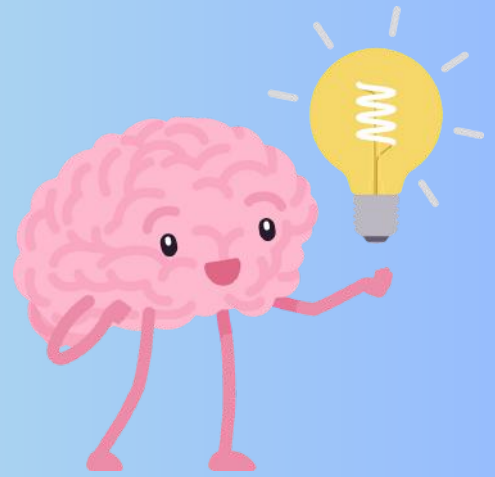


The IT department celebrated Engineers' Day with zeal, honoring Sir M. Visvesvaraya's legacy. Engaging workshops, interactive sessions, and project showcases showcased students' technical prowess. The event fostered a sense of pride and camaraderie, highlighting the crucial role of engineers in shaping the digital future. It was a resounding success, blending innovation.



EVENTS

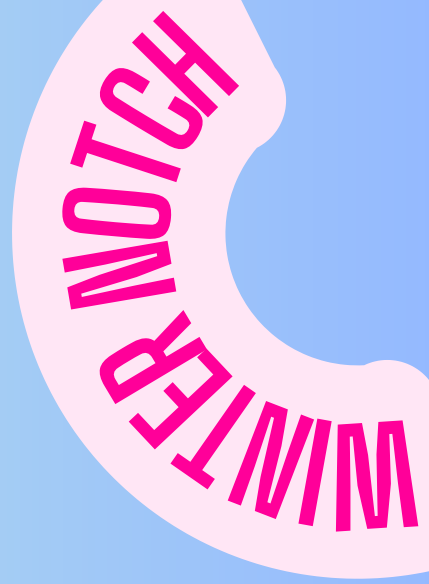
5. INNOVATION DAY



The IT department marked Innovation Day with a showcase of cutting-edge projects, highlighting our commitment to technological advancement. Faculty and students engaged in collaborative discussions, fostering a dynamic atmosphere of creativity and inspiration. The event encapsulated our shared vision for a future driven by innovative solutions in information technology.



EVENTS



6. WINTER NOTCH



The Winter Notchfest at VR Siddhartha College witnessed enthusiastic participation from students of the NRI Institute of Technology's IT department. Adding their unique flair to the virtual celebration, these students engaged in a variety of winter-themed activities, contributing to the vibrant atmosphere of the event held at VR Siddhartha.



PAPER PUBLICATION

DEPARTMENT OF INFORMATION TECHNOLOGY LIST OF JOURNAL PUBLICATION 2022-23

S.NO	NAME OF THE FACULTY	TITLE	NAME OF JOURNAL	ISSN NO	VOLUME	ISSUE
1	DR.CHAITANYA KISHORE REDDY.M	PREDICTION OF BANK LOAN STATUS USING SUPPORT VECTOR MACHINE ALGORITHM	THE INTERNATIONAL JOURNAL OF ANALYTICAL AND EXPERIMENTAL MODAL ANALYSIS	ISSN NO0886-9367	VOLUME XIV	2022
2	DR.CHAITANYA KISHORE REDDY.M	DESIGNING A NEW CLASSIFICATION SYSTEM FOR ANALYSING AND DETECTIONG OF THE PERNICIOUS URLs USING A RANDOM FOREST ALGORITHM	JOURNAL OF INTER DISCIPLINARY CYCLE RESEARCH	ISSN NO0022-1945	VOLUME XIV	2022
3	DR.CHAITANYA KISHORE REDDY.M	STOCK EXCHANGE FORECAST USING DECISION TREE	JOURNAL OF INTER DISCIPLINARY CYCLE RESEARCH	ISSN NO0022-1945	VOLUME XIV	2022
4	DR.CHAITANYA KISHORE REDDY.M	CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING ALGORITHM	AN UGC-CARE APPROVED GROUP-II JOURNAL	ISSN NO2352-8648	VOLUME I	2022

PAPER PUBLICATION



5	DR.CHAITANYA KISHORE REDDY.M	IMPLEMENTATION OF FACEMASK DETECTION TO FENCE THE WIDE SPREAD USING MACHINE LEARNING	THE INTERNATIONAL JOURNAL OF ANALYTICAL AND EXPERIMENTAL MODAL ANALYSIS	ISSN N00886- 9367	VOLUME XIV ISSUE-4	2022
6	SK.MAHBOOB BASHA	AN ANALYSIS OF TRUSTED CROWDFUNDING USING BLOCK CHAIN TECHNOLOGY	THE INTERNATIONAL JOURNAL OF ANALYTICAL AND EXPERIMENTAL MODAL ANALYSIS	ISSN N00886- 9367	VOLUME XIV ISSUE-	2022
7	SK.MAHBOOB BASHA	CRIME PREDICTION THROUGH MACHINE LEARNING	THE INTERNATIONAL JOURNAL OF ANALYTICAL AND EXPERIMENTAL MODAL ANALYSIS	ISSN N00886- 9367	VOLUME XIV ISSUE-4	2022
8	SHAIK MAHBOOB BASHA	COVID RECOGNITION AND SEVERITY ANALYSIS THROUGH XRAY IMAGES	THE INTERNATIONAL JOURNAL OF ANALYTICAL AND EXPERIMENTAL MODAL ANALYSIS	ISSN N00886- 9367	VOLUME XIV ISSUE-4	2022
9	SK MAHBOOB BASHA	LUNG CANCER DISEASE FORECASTING USING RANDOM FOREST ALGORITHM	JOURNAL OF INTER DISCIPLINARY CYCLE RESEARCH	ISSN N00022- 1945	VOLUME XIV ISSUE-3	2022
10	SK MAHBOOB BASHA	HAND WRITTEN DIGIT RECOGNITION USING MACHINE LEARNING	AN UGC-CARE APPROVED GROUP-II JOURNAL	ISSN N02352- 8648	VOLUME I ISSUE-3	2022
11	MR.B.B.K.PRAS AD	DETECTING FAKE ONLINE REVIEWS USING SUPERVISED AND SEMI SUPERVISED LEARNING	AN UGC-CARE APPROVED GROUP-II JOURNAL	ISSN N02352- 8648	VOLUME I ISSUE-3	2022

PAPER PUBLICATION



12	MR.BALAKRISHNA PRASAD.B	AN EMEND ALGORITHM FOR ATTRIBUTE SELECTION USING PRINCIPLE COMPONENT ANALYSIS IN HIGH DIMENSIONAL MICRO ARRAY DATASETS	THE INTERNATIONAL JOURNAL OF ANALYTICAL AND EXPERIMENTAL MODAL ANALYSIS	ISSN N00886-9367	VOLUME ISSUE-	2022
13	B.B.K.PRASAD	HEART DISEASE PREDICTION SYSTEM USING HYBRID MODEL USING RF AND SVC	THE INTERNATIONAL JOURNAL OF ANALYTICAL AND EXPERIMENTAL MODAL ANALYSIS	ISSN N00886-9367	VOLUME XIV ISSUE-3	2022
14	MR.B.B.K.PRASAD	AI VIRTUAL HANDY INPUT SOURCES TO COMPUTER	JOURNAL OF INTER DISCIPLINARY CYCLE RESEARCH	ISSN N00022-1945	VOLUME ISSUE-	2022
15	B.NAGARAJU	ENLIGHTENMENT OF TODAYS INTRUSION DETECTION SYSTEM USING ML ALGORITHMS	THE INTERNATIONAL JOURNAL OF ANALYTICAL AND EXPERIMENTAL MODAL ANALYSIS	ISSN N00886-9367	VOLUME XIV ISSUE-3	2022
16	MR.NAGARAJU. BORUGUDDA	INSURANCE CLAIM PREDICTION USING RANDOM FOREST ALGORITHM IN MACHINE LEARNING	THE INTERNATIONAL JOURNAL OF ANALYTICAL AND EXPERIMENTAL MODAL ANALYSIS	ISSN N00886-9367	VOLUME XIV ISSUE-3	2022
17	NAGARAJU BORUGUDDA	ANALYSIS AND PREDICTION OF CHURN CUSTOMERS USING MACHINE LEARNING	JOURNAL OF INTER DISCIPLINARY CYCLE RESEARCH	ISSN N00022-1945	VOLUME XIV ISSUE 4	2022
18	NAGARAJU BORUGUDDA	LIVE YOGA SIMULATION USING OPENCV AND MEDIAPIPE	JOURNAL OF INTER DISCIPLINARY CYCLE RESEARCH	ISSN N00022-1945	VOLUME XIV ISSUE 4	2022
19	N.NARASIMHA RAO	SECURE MOBILE,SHORT MESSAGE SERVICE SPAM DETECTION USING MACHINE LEARNING ALGORITHMS	AN UGC-CARE APPROVED GROUP-II JOURNAL	ISSN N02352-8648	VOLUME I ISSUE-3	2022

Student Artical on The Art of Ethical Hacking

S.Hemanth Vaibhav

November-2022

In a world dominated by digital interconnectedness, the threat landscape for cyber attacks continues to evolve. As organizations and individuals alike rely on digital platforms for communication, commerce, and critical operations, the importance of cybersecurity becomes paramount. This article delves into the world of ethical hacking, exploring its principles, methodologies, and its crucial role in fortifying our digital defenses.

I. Defining Ethical Hacking:

a. Ethical Hacker's Mission:

Define ethical hacking as a legal and authorized attempt to identify and exploit vulnerabilities in a system to strengthen its security.

Emphasize the ethical hacker's mission to discover and fix weaknesses before malicious hackers can exploit them.

b. Legal and Regulatory Framework:

Highlight the importance of ethical hacking within a legal and regulatory framework, ensuring that testing is conducted with proper authorization and consent.

Discuss relevant laws and standards governing ethical hacking practices.

II. The Role of an Ethical Hacker:

a. Identifying Vulnerabilities:

Explore how ethical hackers use a variety of tools and techniques to identify vulnerabilities in software, networks, and systems.

Discuss the importance of thinking like a malicious actor to anticipate potential attack vectors.

b. Penetration Testing:

Define penetration testing as a controlled and simulated attack on a system to assess its security posture.

Outline the various types of penetration tests, including network, web application, and social engineering tests.

III. Methodologies and Approaches:

a. Reconnaissance:

Discuss the initial phase of ethical hacking, where information about the target system is gathered through open-source intelligence (OSINT) and other methods. Emphasize the importance of understanding the target's infrastructure and potential weak points.

b. Scanning and Enumeration:

Explore the process of scanning for open ports, services, and vulnerabilities. Explain how enumeration involves extracting additional information about the target to refine the attack strategy.

Conclusion:

Ethical hacking stands as a crucial pillar in the defense against cyber threats, demonstrating that the best way to counteract malicious hackers is to understand their tactics and vulnerabilities. By adopting ethical hacking practices, organizations can proactively strengthen their cybersecurity posture, fostering a safer digital landscape for individuals, businesses, and society as a whole.



MOU's

Details Of MoU's

S.NO	NAME OF THE ORGANIZATION	SERVICE PROVIDED BY THE ORGANIZATION
1.	RK COLLEGE OF ENGINEERING	Workshops/Seminar/FDP
2.	HMI Engineering Services,Vishakapatnam	Internship/Workshop/Seminar
3.	BLACKBUCK ENGINEERS ,HYDERABAD	Internship/Workshop/Seminar
4.	ADVITA GLOBAL -IT LABS ,Pvt.Ltd,Hyderabad	Internship/Workshop/Seminar
5.	Myra Academy	TRAINING AND PLACEMENT



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