



MITS
MADANAPALLE

**MADANAPALLE INSTITUTE OF
TECHNOLOGY & SCIENCE**
(UGC-AUTONOMOUS INSTITUTION)

COMPUTER SCIENCE & TECHNOLOGY

ECHO
NEWS LETTER



ACADEMIC YEAR: 2023-2024

VOLUME 5, ISSUE 1

Dr. M. Sreedevi
Professor / HOD-CST.



Dear Readers,

We are more than enthralled to announce the release of our ECHO_Newsletter for the Academic Year 2023-2024, Volume-5, Issue-1.

"Little Drops of Water Make the Mighty Ocean," a saying we witness coming true each day. Our newsletter is just a droplet in the ocean that has already begun to form. This semester has been a successful one, a fact that will become even more evident as you read this newsletter.

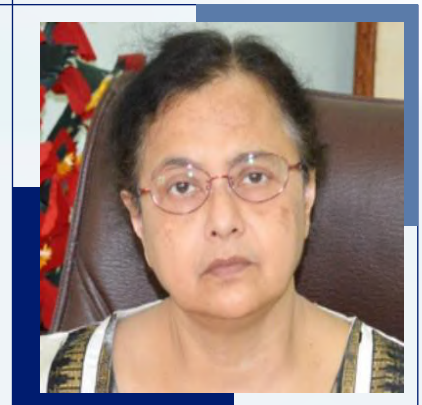
I would like to heartily thank all the students and faculty for putting their hearts and souls into this newsletter. The editorial team deserves a special mention for their immense hard work! This newsletter will highlight the events held by the Department of Computer Science & Technology, as well as the achievements and extra-curricular, co-curricular, and academic successes of the students and faculty.



Dr. C. Yuvaraj
Principal

Dear All,

Technology has been growing so exponentially over recent years, there has been a steady increase in demand for bright graduates to come in and help to transform areas ranging from data infrastructure to cyber security. It is important to stay up to date with the latest trends in computer science research, to make an informed choice about where to head next. I am happy to note that the Department of Computer Science & Technology is bringing out a newsletter. I am sure that this newsletter will bring value to all the students and readers who are interested in the area of Computer Science in the form of the latest developments made in technology. I wish, the department all the best for the publication of the Newsletter and in all their future endeavor.



Dr. Basabi Chakraborty
Professor & Dean-Academics

Technology is changing the way people think and it is crucial to address a variety of engineering and technological challenges, as a result, significant progress has been made in the field of Computer Science & Technology by integrating knowledge, based on theoretical and practical aspects. The Department of Computer Science & Technology makes an effort to enhance this field through its research and teaching. It gives me an immense pleasure that the Department of Computer Science & Technology is releasing the Newsletter for the year 2023-2024. The newsletter is a forum that brings out the best talent among the students and their multitalented skills which showcases their academic and extracurricular activities. The current newsletter (Volume-5, Issue-1) provides all the stakeholders a general overview of the department and its activities.

My sincere congratulations to the editorial board and contributors for creating such an outstanding publication. Best wishes for securing greater success and reaching new heights in the days to come.

Department Vision:

To bring forth globally competent engineers with societal consciousness, who thrive in academics and research in Computer Science & Technology.

Department Mission:

M1: To deliver technical education of the highest quality by improving the curriculum and using effective pedagogical techniques by qualified faculty.

M2: To foster interaction between Industry and academia, to improve students' abilities in research, innovation, and entrepreneurship.

M3: To prepare the students to become professionally competent and intellectually adept by imparting required Skills to mitigate the societal problems.

Program Educational Objectives (PEOs)

PEO1: Graduates will have successful career by contributing for innovation of new technologies and systems in the key domains of Computer Science & Technology.

PEO2: Graduates will be able to perform technical/ administrative roles in information technology industry / R&D sectors and pursue higher education in reputed institutions.

PEO3: Graduates will be ethically and socially responsible towards the societal development and opting a career as an entrepreneur with moral values in various domains of Computer Science & Technology.

Program Outcomes (POs)

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO3: 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.

PO4: 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.

PO5: 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.

PO6: 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.

PO7: 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.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: 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.

PO11: 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.

PO12: 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.

Program Specific Outcomes (PSOs)

PSO1: Ability to design algorithms using mathematical models and implement problems through different programming tools to solve real world problems.

PSO2: Ability to apply Software Engineering Principles & Practices in the domain of Database Management Systems, Compilers, Computer Networks, Operating Systems and allied areas, Mobile and web-based applications under realistic constraints.

PSO3: Ability to implement the principles and techniques of Artificial Intelligence and Machine Learning, IoT and Cloud Computing, Data Analytics & Security by applying them to develop intelligent systems and data-driven solutions.



Event - 1

ECHO Newsletter-July 2023

GUEST LECTURE ON “TRIUMPHING TECHNOLOGIES FOR IT VINTAGE”

Department of Computer Science & Technology

Date | 1st July 2023

Time | 9.30 AM to 12.00 PM

Beneficiary | 3rd Sem Students of CST



The Department of Computer Science & Technology organized a Guest Lecture on “Triumphing Technologies for IT Vintage” for the 3rd semester CST students. The speaker of the event was Mr. Kadiri Ramanujulu, Project Manager, CGI Bangalore. The various topics on innovations were discussed along with the creation of different ideas. Developments enable us to improve and develop new products and services And Quantum-mechanical phenomena to perform operations on data. Around 102 students participated and benefitted from the session.

Event - 2

SEMINAR ON “PROFESSIONAL IEEE MEMBERSHIPS”

Department of Computer Science & Technology

Date | 31st July 2023

Time | 03.00 PM to 05.00 PM

Beneficiary | 7th Sem CST Students



The Department of CST organized an A Seminar on “Professional IEEE Memberships” for 7th Sem CST students on 31st July 2023 from 03.00 PM to 05.00 PM. Resource Person Prof. Takako Hashimoto, Vice President & Professor, Faculty of Commerce & Economics, Chiba University of Commerce, Japan, addressed the session. Key topics were Benefits of IEEE memberships, Engineering and Technical aspects of IEEE memberships, Importance of Student IEEE memberships, Importance to the Society., etc. Around 94 students participated .

Event - 1

ECHO Newsletter-September 2023

“EXPLORING WEBAR - ONE DAY INTRODUCTORY WORKSHOP ON CREATING WEB AR CONTENT”

Department of Computer Science & Technology

Date | 01 Sept 2023

Time | 10.10 AM to 4.30 PM

Beneficiary | 5th Sem CST students



The Department of Computer Science & Technology organized an Workshop on “Exploring WebAR - One Day Introductory Workshop on Creating Web AR Content” for 5th Sem CST students on 16/09/2022 from 10.10 AM to 04.30 PM. Resource Person Mr. Ashok Kumar M, Founder & Developer, Praya Labs, Tiruvannamalai addressed the session. Key topics were Introduction to Augmented Reality, Understanding Web Augmented Reality, Introduction to WebAR Development Tools, etc. Around 70 students participated and benefited from this expert talk.

Event - 2

“TEACHER’S DAY CELEBRATIONS-2023”

Department of Computer Science & Technology

Date | 05 Sept 2023

Time | 03.00 PM to 05.00 PM

Beneficiary | CST students



Faculty members and Students of Department of Computer Science & Technology shared their wishes on teacher’s day by sharing their own experience with their teachers and students. A total of 60 CST students attended and benefited from this event.

Event - 3

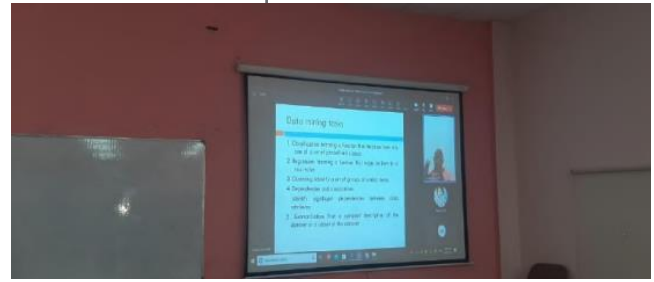
GUEST LECTURE ON “DATA SCIENCE AND ITS CHALLENGES”

Department of Computer Science & Technology

Date | 16 Sept 2023

Time | 09.30 AM to 04.30 PM

Beneficiary | 5th Sem CST Placed Students



The Department of Computer Science & Technology organized a Guest Lecture on “Data Science and its Challenges” for the 5th semester CST students. The speaker of the event was Dr. Baskar Kasi, Assistant Professor(G-III), CSE, Galgotias University, Greater Noida. The Resource person (Dr. Baskar Kasi) joined online and he has started the session by extending his heartily thanks to the participants organizing members, HOD CST, Principal and Management of MITS, Madanapalle for giving him opportunity to share his knowledge and experience in " Data Science and its Challenges ". Around 137 students participated and benefitted from the session.

Event - 4

WORKSHOP ON "CYBER SECURITY & INDUSTRIAL APPLICATIONS"

Department of Computer Science & Technology

Date | 21 Sept 2023

Time | 10.00 AM to 5.00 PM

Beneficiary | 5th Sem CST Students



The Department of Computer Science & Technology organized an Workshop on "Cyber Security & Industrial Applications" for 5th semester students on 21st September 2023 from 10.00 AM to 5.00 PM. The Resource person Mr. M Sai Prashanth, Software Developer, Tech Mahindra, Hyderabad. The objective of the Cyber Security & Industrial Applications Workshop is to provide participants with comprehensive knowledge and practical skills in safeguarding critical industrial systems and infrastructure from cyber threats. Total 146 participants benefited from the event.

Event - 5

ALUMNI TALK "SAP AS CAREER"

Department of Computer Science & Technology

Date | 22 Sept 2023

Time | 09.30 AM to 12.30 PM

Beneficiary | 3rd Sem CST Students



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS INSTITUTION)
Madanapalle-517325, Annamaya Dist., Andhra Pradesh

Organized by
Department of Computer Science & Technology

**A Guest Lecture on
'SAP AS CAREER'**
by **ALUMNI**
**MS.S.RIHANA, Associate Software Engineer
SAP ABAP,ACCENTURE,BENGALURU**

DATE:22.09.2023
VENUE:CST DEPARTMENT

Convener
Dr.M.SREEDEVI, HOD/CST

Coordinators
**1.Mr.D.SURESH, AP/CST
2.Mr.V.NAVEEN, AP/CST**



Department of Computer Science and Technology, has organized Alumni Guest Lecture on "SAP as Career" on 22nd September 2023. The invited alumni speaker for the event was Ms. S. Rihana, Associate Software Engineer, Accenture, Bangalore. The title of the event was "SAP as Career". She addressed the 3rd semester CST students. She spoke about SAP Community Migration: The SAP Community is migrating to a new platform, and you can read more about this exciting change. SAP BASIS: This topic covers important aspects of SAP BASIS, such as ERP introduction, SAP R/3 introduction, SAP versions, directory structures, and user administration. A total of 64 students actively participated and benefited from the session.

Event - 6

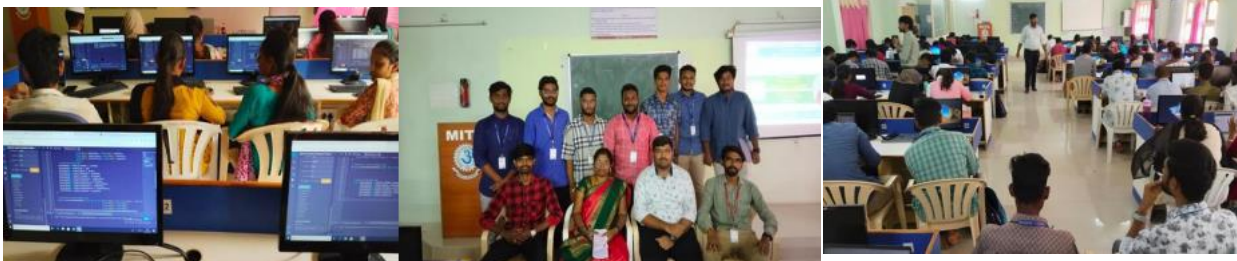
WORKSHOP ON BLOCK CHAIN & HYPER-LEDGER FABRICATION

Department of Computer Science & Technology

Date | 22 Sep 2023

Time | 10.00 AM to 5.00 PM

Beneficiary | 5th Sem CST Students



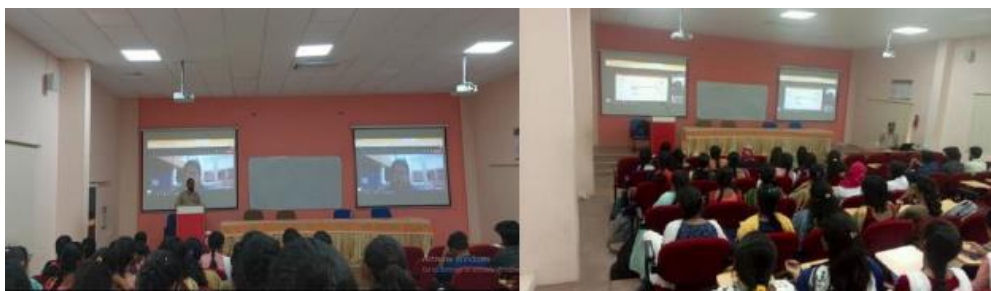
The Department of Computer Science & Technology organized the Workshop on Block Chain & Hyper-Ledger Fabrication for 5th Semester students on 22nd September 2023 from 10.00 AM to 05.00 PM. The Resource person Mr. M Sai Prashanth, Software Developer, Tech Mahindra, Hyderabad. Key topics of the event were: Blockchain and Hyperledger Fabrication is to provide participants with a deep understanding of blockchain technology, with a specific focus on Hyperledger Fabric, and equip them with the knowledge and skills necessary to design, develop, and deploy blockchain applications. A total of 108 students actively participated and benefited from the session.

Event - 7

EXPLORATORY DATA ANALYSIS IN MACHINE LEARNING USING PYTHON

Department of Computer Science & Technology

Date | 27th Sept 2023 | Time | 02.00 PM to 04.15 PM | Beneficiary | 5th Sem CST Students



The Department of Computer Science & Technology organized an Expert lecture on the topic "Exploratory Data Analysis in Machine Learning using Python" for 5th-semester students on 27th September 2023 from 02.00 PM to 04.15 PM. Resource person Dr Anooja Ali, Associate Professor, Department of CSE, REVA University, Bengaluru. addressed the session. Key topics of the event were: Data visualization and their conversion from Data visualization to BI, Types of variables, Tools for Exploratory data analysis, Demonstration of packages in python for data analysis, Jupyter notebook explanation on NumPy, Pandas packages with practical implementation. A total of 108 participants benefited from the event.

Event - 8

ALUMNI TALK" Career Pathing: Create A Career Development Framework"

Department of Computer Science & Technology

Date | 27th Sept 2023 | Time | 09.00 AM to 12.30 PM | Beneficiary | 5th Sem CST Students

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS INSTITUTION)
Madanapalle-517325, Annamaya Dist., Andhra Pradesh

Organized by
Department of Computer Science & Technology
A Guest Lecture on
'CAREER PATHING:CREATE A CAREER DEVELOPMENT FRAMEWORK'
by **ALUMNI**
Mr.CHALLA PRAVEEN, Graduate Engineer Trainee
MINDTREE, HYDERABAD
DATE:27.09.2023
VENUE:CST DEPARTMENT

Convener
Dr.M.SREDEVI, HOD/CST

Coordinators
1.Mr.D.SURESH, AP/CST
2.Mr.V.NAVEEN, AP/CST



Department of Computer Science & Technology organized "ALUMNI TALK" on 27th September 2023 from 09:30 AM to 12:30 PM. The invited alumni speaker for the event was Mr Challa Praveen, Graduate Engineer Trainee, Mindtree, Hyderabad. The title of the event was "Career Pathing: Create a Career Development Framework". The primary objective of this event is to provide attendees with a comprehensive understanding of career pathing and equip them with the knowledge and tools necessary to create a robust career development framework. The session was interactive, and students were curious to know more about cracking the best opportunity given to them. More than 50 participants benefited from the event .

Event - 9

INAUGURAL CEREMONY OF MADANAPALLE ITS ACM STUDENT CHAPTER

Department of Computer Science & Technology

Date | 29th Sept 2023 | Time | 10.30 AM to 04.30 PM | Beneficiary | CST Students



Department of Computer Science & Technology has organized Inaugural Ceremony of the "Madanapalle ITS ACM Student Chapter" to mark the official establishment of the chapter and set the tone for its activities and mission. The primary goal is to formally inaugurate the ACM Student Chapter at Madanapalle ITS, recognizing it as an official and recognized student organization within the institution. A total of 142 participants benefited from the event.

Event - 10

GUEST LECTURE ON CONVERTING INNOVATION INTO A STARTUP

Department of Computer Science & Technology

Date | 29th Sept 2023 | Time | 02.00 PM to 04.00 PM | Beneficiary | 7th Sem CST Students



The Department of CST organized an Guest Lecture on Converting Innovation into a Startup for 7th semester students on 29th September 2023 from 02:00 PM to 04:00 PM. Resource person Mr. V. Yaswanth, Managing Director, Bright Geeks Technologies, Bengaluru, Karnataka addressed the session. Key topics of the event were: Infer creativity is the act of turning new and imaginative ideas into reality, Focus on Hiring Creative Individuals, Make moral oriented, capable and qualified skilled entrepreneurs. A total of 120 participants benefited from the event.

Event - 1

Newsletter- October 2023

MoU Exchange Between Madanapalle Institute of Technology & Science (MITS) & ExcelR Edtech Pvt. Ltd.



MoU is exchanged between Madanapalle Institute of Technology & Science (MITS) & Cybersecurity Centre of Excellence (CCoE), Data Security Council of India (DSCI), Government of Telangana was initiated by Department of Computer Science & Technology on 12th October 2023.

Event 2:

ALUMNI TALK

Department of Computer Science & Technology

Date | 17-10-2023

Time | 10.00 AM to 12.30 PM

Beneficiary | 3rd Sem CST students



The Department of Computer Science & Technology organized an "Alumni Talk". The alumni speaker for the event was Mr. Chaithanya, Graduate Engineer Trainee, Hexaware Technologies Ltd, Chennai. He addressed the 3rd Semester CST students on "Employability Skills for the Future". The speaker motivated the students by giving insight on how to prepare for academics as well as the skills that they must develop for the placements. The session was very interactive, and students wanted to know more about cracking the best opportunity given to them. More than 70, 2nd year students of CST department attended and benefited from this event.

Event - 3:

ALUMNI TALK

Department of Computer Science & Technology

Date | 20-10-2023

Time | 10.00 AM to 10.00 PM

Beneficiary | 3rd Sem CST students



The Department of Computer Science & Technology organized an "Alumni Talk". The alumni speaker for the event was Ms. K. Poojitha Reddy, Software Engineer, JLL Technologies, Bangalore. She addressed the 3rd Semester CST students on "Introduction to Data Warehousing and ETL". The speaker provided valuable insights into the fundamentals of Data Warehousing and ETL (Extract, Transform, Load) processes, emphasizing their importance in the field of data management and analytics. The session was highly interactive, with students actively engaging to learn more about building a strong foundation in data warehousing concepts and mastering ETL techniques to unlock the best opportunities in the industry. More than 69, 2nd year students of CST department attended and benefited from this event.

Event 4:

ALUMNI TALK

Department of Computer Science & Technology

Date | 26-10-2023

Time | 1.00 PM to 3.00 PM



The Alumni Guest Lecture on "Role of Performance Tester: Sharing Updates on Current Opportunities," was conducted by Ms. D. Reddy Sowmya, Program Analyst at Cognizant, with 72 participants from the II Year CST students. The session covered the critical responsibilities of performance testers, including volume testing, workload modeling, and performance script enhancements. Ms. Sowmya highlighted the importance of understanding non-functional requirements, test monitoring, and result analysis. The lecture provided practical insights into performance testing and emphasized its value as a career path. The event concluded with a vote of thanks, emphasizing gratitude for promoting student learning and career development.

Event - 1:

Newsletter- November 2023

PARENTS' MEETING

Department of Computer Science & Technology

Date | 02-11-2023 | Time | 09.00 AM to 05:00 PM



The Parents' Meeting, organized by the Department of CST, aimed to foster collaboration between parents, teachers, and students to enhance academic and personal development. Highlights included updates on internships (414 completed in AY 2023-24), NPTEL certifications (828 exams taken this year), and placements (85% in AY 2022-23). The HoD emphasized regular parent-mentor interactions, foundational coding skills, and encouraging library use over mobile devices. Parents suggested an on-campus hostel, industry-oriented workshops, and reduced reliance on mobile phones for study purposes. Approximately 180 students participated, and parents provided valuable feedback to improve the overall academic environment.

Event - 2:

INDUSTRIAL EXPERT TALK

Department of Computer Science & Technology

Date | 15-11-2023 | Time | 10.00 AM to 12.00 PM | Beneficiary | 3rd Year Students



The Industrial Expert Lecture on "Project Management Office Toolkit in JIRA Environment" featured 70 participants from the III Year CST students. Mr. Mothadi Manoj Kumar, Associate Software Engineer at Accenture, discussed how tools like JIRA, Big Picture, and Confluence streamline project management through task tracking, automation, and collaboration. The session provided insights into PMO toolkits and their application in managing large-scale projects and concluded with a vote of thanks for fostering student learning in project management.

Event 1:

Newsletter- January 2024

One-day Guest lecture on “Quantum Computing: A Journey into the future of Computing”

Department of Computer Science & Technology

Date | 30-1-2024

Time | 10.00 AM to 12.00 PM



Held on 30th January 2024 in an offline format, the session was attended by 70 second-year CST students. The resource person was Dr. Aravinda S, Assistant Professor, IIT Tirupati. The lecture introduced quantum principles like superposition and entanglement and their computational advantages. Applications in cryptography, optimization, drug discovery, and AI were discussed, along with challenges like decoherence and scalability. The session emphasized the collaborative research required to advance quantum technologies, giving students a comprehensive understanding of its potential and limitations.

Event - 2:

One Day Workshop on “Redefining Tomorrow: AI Advancements”

Department of Computer Science & Technology

Date | 30-1-2024

Time | 1.00 PM to 5.00 AM

Beneficiary | 3rd Year Students



This offline workshop was conducted on 30th January 2024 with 70 third-year CST students attending. The resource person, Dr. R. Subramanian, Senior Professor, Pondicherry University, shared insights into advancements in AI. Topics included Machine Learning, NLP, Explainable AI (XAI), and Edge AI. Industry applications in healthcare, finance, and manufacturing were explored. The session also addressed ethical concerns and regulatory implications of AI. Students learned about cutting-edge technologies, real-world applications, and the evolving AI landscape.

Event 3:

Guest Lecture on “Solving Real-World Problems with Multi-Agent Systems: A Soft Computing Framework”

Department of Computer Science & Technology

Date | 31-12-2024

Time | 2.00 PM to 5.00 PM

Beneficiary | 2nd Year CST Students

The Department of Computer Science and Technology organized a one-day guest lecture on “Solving Real-World Problems with Multi-Agent Systems: A Soft Computing Framework” on January 31, 2024. The event, held offline, was attended by 71 second-year CST students and delivered by Dr. T. KalaiPriyan, Assistant Professor, Centre for Smart Grid Technologies, VIT Chennai.

Event - 4:

Guest Lecture On “IoT and Healthcare: Innovations in Remote Patient Monitoring”

Department of Computer Science & Technology

Date | 31-1-2024

Time | 10.00 AM to 12.00 PM

Beneficiary | 2nd Year CST Students



The guest lecture on “IoT and Healthcare: Innovations in Remote Patient Monitoring”, conducted on January 31, 2024, by Dr. Sivakumar N, focused on integrating IoT with healthcare to improve patient monitoring systems. Key topics included IoT fundamentals, its interconnection with healthcare, and creating simple IoT healthcare projects. The session emphasized the importance of innovations in patient monitoring, ethical and privacy considerations, and career opportunities in this domain. Students gained practical insights into leveraging IoT for healthcare advancements and explored future trends in technology and patient care.

Event 1:

Newsletter- February 2024

Guest Lecture on “Security Challenges in Wireless Communication: Threats and Countermeasures”

Department of Computer Science & Technology

Date | 1-2-2024

Time | 10.00 AM to 12.00 PM

Beneficiary | 3rd Year CST Students



The Department of Computer Science and Technology at MITS organized a one-day guest lecture on February 1, 2024, led by Dr. Rajakumar Arul from VIT Chennai. Attended by 67 third-year CST students, the lecture focused on addressing security threats in wireless communication networks, such as eavesdropping, spoofing, and jamming, alongside effective countermeasures. The session emphasized safeguarding sensitive information and mitigating emerging challenges through robust security practices. Students gained insights into threats, strategies, and tools to enhance wireless communication security, preparing them for advanced challenges in the field.

Event - 2:

Five Days FDP on “Exploring the Quantum Frontier: An In-Depth Investigation of Quantum Computing and its Revolutionary Applications”

Department of Computer Science & Technology

Date | Jan 29 to Feb 2

Time | 10.00 AM to 2.00 PM

Beneficiary | Internal & External Faculty



The Department of Computer Science & Technology, MITS and Faculty Development Program cell, JNTUA in association with ISTE AP section jointly organized a 5-Day FDP program titled " Exploring the Quantum Frontier: An In-Depth Investigation of Quantum Computing and its Revolutionary Applications " January 29, 2024, to February 2, 2024, at Madanapalle Institute of Technology & Science, Madanapalle. The registration started at 9.00 a.m. in the Seminar Hall B. The Inauguration started by 9.30 a.m. at Seminar Hall B, MITS. Senior Professor Dr. R. Subramanian from Pondicherry University graced the occasion as the Chief Guest, Dr. Aravinda S from IIT Tirupati was the Guest of Honor. The Vice principals, Deans, HoDs, Faculty & Staff members from various departments, External participants from various institutes and Students were participated in inauguration ceremony.

Event 3:

“Workshop on Quantum-Safe Cryptography Workshop: Navigating the Transition”

Department of Computer Science & Technology

Date | 02-02-2024 Time | 10.00 AM to 5.00 PM



The Department of Computer Science & Technology, MITS, organized a one-day workshop on “Quantum-Safe Cryptography: Navigating the Transition” on February 2, 2024, led by Dr. Kunwar Singh from NIT Trichy, attended by 72 third-year CST students. The workshop covered the impact of quantum computing on traditional cryptography, the need for post-quantum algorithms (e.g., lattice-based, hash-based cryptography), and assessed vulnerabilities in current protocols like TLS/SSL. Challenges like interoperability, standardization, and migration strategies were discussed, along with implementation methods for quantum-safe solutions. Insights on initiatives by AWS, Microsoft, and Google highlighted industry advancements in quantum resistance.

Event - 4:

Guest lecture on “Development of Computer Vision System for an AI Assistant”

Department of Computer Science & Technology

Date 02-02-2024 Time: 10.00 AM to 5.00 PM Beneficiary: 3rd Year CST Students



On February 2, 2024, a guest lecture on “Development of Computer Vision System for an AI Assistant” was organized by the Department of Computer Science & Technology, MITS. Led by Dr. U. Srinivasulu Reddy from NIT Tiruchirappalli, the session focused on integrating image processing algorithms for AI tasks like object and facial recognition. 72 third-year CST students attended the lecture, which covered real-world applications in robotics, healthcare, and autonomous systems. Dr. Reddy shared deployment strategies, AI enhancements, and hands-on experience to optimize computer vision systems for AI assistants. The session provided valuable insights into AI's role in various industries.

Event - 5:

Guest lecture on "Protocols for the Future: Post-Quantum Public Key Infrastructure Essentials"

Department of Computer Science & Technology

Date | 03-02-2024

Time | 10.00 AM to 12.00 PM

Beneficiary | 3RD Year CST Students



A guest lecture on "Post-Quantum Public Key Infrastructure Essentials" was held by the Department of Computer Science & Technology, MITS. Dr. R. Kabaleeshwaran, Assistant Professor at IIITDM Kurnool, led the session, attended by 70 third-year CST students. The lecture focused on the impact of quantum computing on cryptography and the development of Quantum-Resistant Cryptographic Algorithms, such as lattice-based and hash-based cryptography. Dr. Kabaleeshwaran explained how these algorithms can secure Public Key Infrastructure (PKI) against quantum threats. The session highlighted the importance of adapting cryptographic protocols to safeguard communication in a quantum-enabled future.

Event 6:

Workshop on "Mastering SCCM 2024: Advanced Deployment Strategies and Best Practices"

Department of Computer Science & Technology

Date | 05-02-2024

Time | 10.00 AM to 05.00 PM

Beneficiary | 3rd Year CST Students



On February 12, 2024, a workshop on System Center Configuration Manager (SCCM) 2024 was conducted for 72 third-year CST students. The session was led by Dr. S. Yogesh Kumaran, Assistant Professor at Jain (Deemed-to-be) University. The workshop focused on advanced deployment strategies and best practices in SCCM, teaching students how to streamline software and update deployments, automate processes, and optimize IT management efficiency. Topics included security measures, compliance requirements, troubleshooting techniques, and the latest updates in SCCM 2024. Hands-on exercises allowed students to apply these concepts in real-world scenarios, reinforcing their learning.

Event - 7:

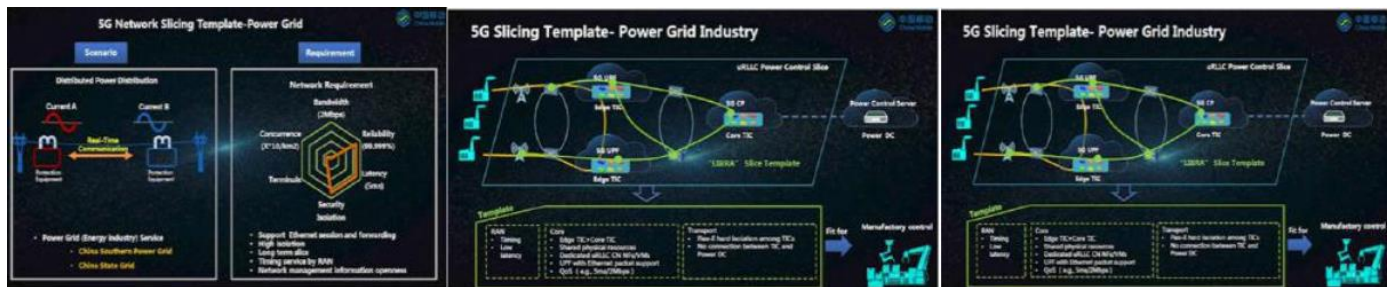
workshop on "Next-Gen Networking Technologies: Exploring 5G, SDN and NFV

Department of Computer Science & Technology

Date | 07-02-2024

Time | 11.00 AM to 4.30 PM

Beneficiary | 2nd Year CST Students



On February 7, 2024, the Department of Computer Science & Technology, MITS hosted a one-day workshop for 70 second-year CST students on “Next-Gen Networking Technologies: Exploring 5G, SDN, and NFV”. The session, led by Dr. M. Shanmugam, Assistant Professor at Pondicherry University, provided an in-depth exploration of 5G networks and the integration of SDN (Software-Defined Networking) and NFV (Network Function Virtualization).

The workshop covered 5G service quality, network softwarization, and highlighted several use cases. It also included a demonstration of 5G network slicing, featuring technologies such as MEC, cloud/Fog computing, and the role of industry initiatives in advancing SDN and NFV.

Event 8:

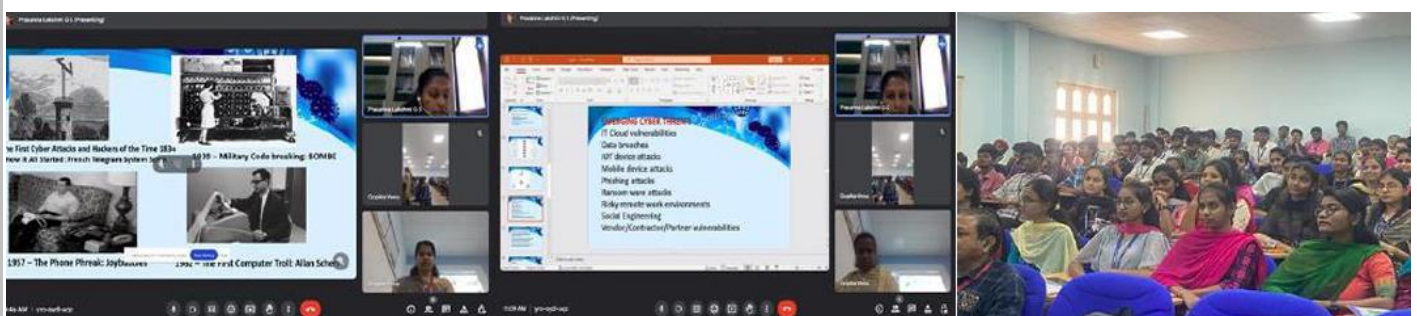
Guest Lecture on “The Evolution of Cyber Threats: Navigating Emerging Trends”

Department of Computer Science & Technology

Date | 26-02-2024

Time | 10.30 AM to 12.00 PM

Beneficiary | 2nd Year CST Students



A guest lecture on “The Evolution of Cyber Threats: Navigating Emerging Trends” was held by the Department of Computer Science & Technology, MITS. Dr. Prasanna Lakshmi G S, Associate Professor, Department of Computer Science and Engineering, Nagarjuna College of Engineering & Technology, Bengaluru, led the session, attended by 119 Second-year CST students. The guest lecture aimed to provide insights into the evolving landscape of cyber threats, including emerging trends, new attack vectors, and strategies for mitigating risks. Topics included the impact of technologies like AI, IoT, and blockchain on cybersecurity, the role of regulations (e.g., GDPR and CCPA), and addressing the cybersecurity skills gap. Real-world examples and case studies were discussed to enhance understanding.

Event - 1:

Newsletter- March 2024

Guest Lecture on “Spark for Data Analysts: Transforming Big Data into Actionable Insights”

Department of Computer Science & Technology

Date | 19-03-2024 Time | 10.00 AM to 12.00 PM Beneficiary | 2nd Year CST Students



The Department of Computer Science & Technology organized a one-day guest lecture, "Spark for Data Analysts: Transforming Big Data into Actionable Insights," on 19th March 2024. Delivered by Mr. Nethaji Muliki, Senior Consultant at Prolim Solutions, Bangalore, the session introduced 62 participants to Apache Spark, its architecture, and data analysis capabilities. Topics included Spark Core, Spark SQL, MLlib, and case studies showcasing Spark's use in industries like finance and healthcare. The lecture emphasized practical applications for handling large datasets and using Spark for machine learning.

Event 2:

Hands-on Workshop on “IoT and Embedded Systems”

Department of Computer Science & Technology

Date | 22-03-2024 Time | 09.00 AM to 05.00 PM Beneficiary | 2nd & 3rd Year CST Students



The Department of Computer Science & Technology organized a one-day hands-on workshop on "IoT and Embedded Systems" on 22nd March 2024. Conducted by Dr. B. K. C. Ganesh, CEO of Pir 3D Technologies, Tirupati, the workshop had 58 participants comprising II and III-year CST students. It focused on IoT fundamentals, sensor integration, data processing, and connectivity protocol through practical exercises. Topics included IoT sensor networks, microcontroller programming, and real-world applications. Participants gained hands-on experience in designing IoT solutions and learned about emerging technologies.

Event - 1:

Newsletter- April 2024

Workshop on "Number Analytics and Data Science"

Department of Computer Science & Technology

Date | 1st & 2nd April | Time | 10.00 AM to 05.00 PM | Beneficiary | 2nd Year CST Students



The two-day workshop titled "Number Analytics and Data Science", organized by the Department of Computer Science & Technology at MITS in collaboration with the Indian Academy of Science, was held on April 1-2, 2024. It featured technical sessions led by distinguished resource persons covering topics such as optimization techniques, privacy-preserving data processing, time series analysis, numeric data visualization, and numeric data analytics. Participants gained theoretical and practical insights through case studies and hands-on activities, enhancing their ability to derive actionable insights and make data-driven decisions. The event fostered networking opportunities, empowering attendees to address challenges in data science. Feedback from 150 participants highlighted its success and areas for future improvement.

Event 2:

National Level Technical Symposium "INVICTA 2K24"

Department of Computer Science & Technology

Date | 22-03-2024 | Time | 09.00 AM to 05.00 PM | Beneficiary | 2nd & 3rd Year CST Students



The one-day National Level Technical Symposium INVICTA 2K24 was organized by the Department of Computer Science & Technology at MITS on April 6, 2024. The event featured Mr. Ashish Chaddha, Senior Director at LTIMindtree, as the Chief Guest, who inspired participants with insights on career planning, goal setting, and adapting to industry trends. The symposium included technical events like Solvathon_5.0, Paper Presentation, Pixify, Brainy Bowl, and Poster Presentation, alongside non-technical events such as Escape Room, The World of Crime, and Pirates Puzzle. It attracted 315 registrations from 23 colleges, fostering collaboration, knowledge exchange, and innovation. The event was a significant milestone in advancing technology and professional growth.

Event 3:

Internal Project Expo - 2024

Department of Computer Science & Technology

Date | 22-03-2024 Time | 09.00 AM to 05.00 PM Beneficiary | 2nd & 3rd Year CST Students

The Internal Project Expo - 2024, organized by the Department of Computer Science & Technology at MITS in collaboration with the Institute Innovation Cell & Entrepreneurship Development Cell, took place on April 24, 2024. A total of 52 teams participated, showcasing innovative projects assessed by expert panels on criteria such as innovation, implementation, and societal impact.



Winners Details:

S. No	Title of the Project	Team Details	Position
1.	INTELLIGENT URL ANALYSIS FOR PHISHING THREATS	BHANU PRAKASH. G ANUSHA. P BALAKRISHNA. S SANDEEP. S	First
2.	CUCKOO SEARCH OPTIMIZATION FOR VM ALLOCATION	LAKSHMIKANTH. R MD. SOHAN. S NITHISH. A UDAY KIRAN RAJU. S	Second
3.	NEW ANALYTICS FRAMEWORK OF PUBLIC MENTAL HEALTH PREDICTION USING RANDOM FOREST ALGORITHM	MADHU SREE. S MADAN MOHAN. S MAHESH. S LAVAN KUMAR REDDY. D	Third



The event aimed to foster creativity, confidence, and readiness for participation in state and national-level expos. All participants were awarded certificates, with winners receiving special recognition. It provided a platform to highlight student innovation and practical problem-solving.

Faculty Achievements

Department of Computer Science & Technology

Consolidated Report of Faculty Interaction with Outside World - (A.Y.2023-24)

S.NO	YEAR	Conference Attended	FDP/STTP/PDP Attended	Workshops/Webinar/Seminar Attended	Journal Reviewers	Session chair	Question Paper Setters	Guest Lectures Delivered / Resource Person/Foreign Lecturer	Patent Filed	Committee Members	Ph.D. Thesis Evaluation	Book Chapters/Books	Others(DC Meeting, Career Counselling Session, Inaugural Ceremony, Parents-Teachers Meet, Industrial Expert Lecture)	TOTAL
1	2023-24	28	119	5	12	9	11	11	6	1	2	1	1	206

Workshops/Webinar/ Seminar Attended-(A.Y.2023-24)

S.NO	Faculty Name	Workshops Attended	Topic	Place
1	Mr.S.Shankar	1	Strengthening the research ecosystem with Science Direct	Research Academy, ELSEVIER
2	Mr.Firoze khan Pathan	1	Strengthening the research ecosystem with Science Direct	Research Academy, ELSEVIER
3	Dr.S.Padma	1	Karmic Design Thinking: A Buddhism-inspired Method to help Create Human Centered Products and Services.	NPTEL/SWAYAM
4	Dr.S.Padma	1	21 st Century Teaching and Learning	Bengaluru
5	Dr.Serin V Simpson	1	Digital Transformation: Convergence of Block chain , Edge-IoT, and AI	MICCS

Book Chapters (A.Y 2023-24)

S.NO	Faculty Name	Co-Author	Book/Book Chapter Title	Publisher Name
1	Mr. Abdul Jaleel	Mr.D.Abdul Jaleel	Compiler Design	Charulatha Publications

Ph.D. Thesis Evaluation (A.Y.2023-24)

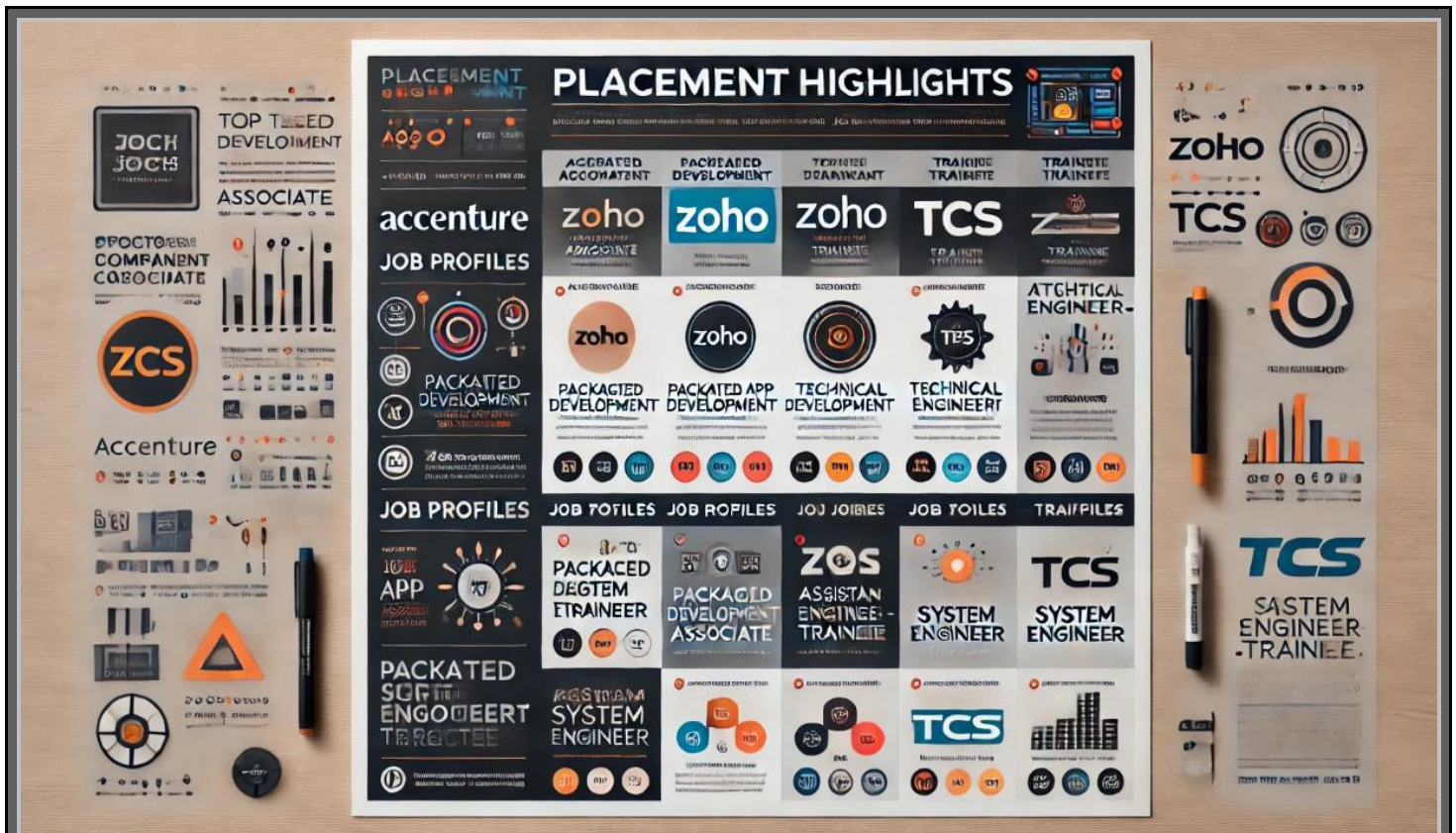
S.NO	Faculty Name	Date	Place
1	Dr. S. Padma	29-12-2023	Bharathiar University, Coimbatore, TamilNadu
2	Dr. S. Padma	10-08-2023	VISTAS, Pallavaram, Chennai

Others(DC Meetings) (A.Y.2023-24)

S.NO	Faculty	Others	Dates	Place
1	Dr.Padma Selvaraj	DAC Expert	20-12-2023	Marwadi University

Committee Member-(A.Y.2023-24)

S.NO	Faculty Name	DATE	NAME
1	Dr.S.Padma	07-12-2023 to 09-12-2023	2nd International Conference on Advancements in Smart Computing & Information Security. (ASCIS 2023)



Here is a summary of the placement details for the 2023-24 academic year at the Department of Computer Science & Technology, MITS:

Total Offers: 123

Notable Companies and Roles:

Accenture: Packaged App Development Associate (3 offers, 4.6 LPA).

ZOHO: Technical Trainee (1 offer, 5.6 LPA).

COAPPS.AI: Python Full Stack Engineer (45 offers, 4 LPA) and Junior Data Scientist (18 offers, 5 LPA).

Tech Mahindra: Associate Software Engineer (4 offers, packages up to 5.5 LPA).

TCS: Assistant System Engineer-Trainee (9 offers, 3.36 LPA).

Highest Package: 7.25 LPA offered by Intellipaate Software Solutions Pvt. Ltd. for the role of Business Development Trainee.

Internship Programs:

Several companies like PacketPrep, Numetry, and Palle Technologies offered internship-cum-hiring opportunities. Most Offers from a Single Employer: COAPPS.AI (63 total offers across two roles).

HIGHER STUDIES DETAILS

Registration/ Enrollment No. of the student in your Institution	Student Name	Name of the University/Institutions where selected for higher studies
20691A2868	Indu Surupu	University of South Dakota, USA
20691A2883	Madhu Sree Sane	University of South Dakota, USA
20691A2890	Mohammed Saqlain Ur Rahaman	Florida Atlantic University, USA
20691A28E4	Safiya K	Southeast Missouri State University, USA

Participation Details of Students in different events Organized by other institute Outside the state & Within the state - Assessment Year 2023 – 2024



1. Outside the State (2023-2024):

Events attended include:

Conferences, workshops, and symposiums at institutions like the Indian Institute of Industrial Engineering, Chandigarh Engineering College, K S R College of Engineering, and more.

Notable events:

4th International Conference on Computational Methods in Science & Technology.
 Challenges in Information, Communication, and Computing Technology Conference.
 Global Digital Innovation Summit (India Mobile Congress-2023).
 Broad participation across academic, technical, and cultural domains.

2. Inside the State (2023-2024):

Events included:

Conferences and innovation competitions at institutions like KL University and Chaitanya Bharathi Institute of Technology.
 Sports activities and hackathons at Sri Venkateswara College of Engineering & Technology and other institutions.

3. Prize Winners:

A total of 23 prizes won during the 2023-2024 academic year.

Chief Editor

Dr. M. Sreedevi
Professor and Head/CST

Associate Editor

Mr. Noorbhasha Junnu Babu
Assistant Professor/CST

Student Editors

Rohitha G (20691A28E0)
P Hima Bindu(20691A2851)
SHAIK.NAWAZIYA(22691A28C7)

mits.ac.in

Madanapalle Institute of Technology & Science
Post Box No: 14, Kadiri Road
Angallu (V), Madanapalle-517325
Annamayya District, Andhra Pradesh, India



MIT'S
MADANAPALLE

**MADANAPALLE INSTITUTE OF
TECHNOLOGY & SCIENCE**
(UGC-AUTONOMOUS INSTITUTION)