



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

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DEPARTMENT OF COMPUTER APPLICATIONS

Report on Five-Day Workshop

Report Submitted by Mrs. Suganya.S, Assistant Professor, MCA

Title: Five days Workshop on "Smart Computing: A Hands-On Approach to Skill Development in Computer Applications"

Date: March 24 – March 28, 2025

**Resource Person: Dr. V. C. Diniesh, Department of Electrical and
Electronics Engineering, Amrita School of Engineering,
Amrita Vishwa Vidyapeetham, Coimbatore, Tamil
Nadu, India**

**Organized by: Department of Computer Applications in association with Skill
Development Cell**

Venue: Seminar Hall C, MITS

**Participants: I year I semester MCA , Department of Computer Applications,
MITS**

A two-day workshop titled **"Smart Computing: A Hands-On Approach to Skill Development in Computer Applications"** was successfully conducted on **24th and 28th March 2025**. The workshop featured two distinguished speakers who shared their expertise in Smart Computing and Its Relevance.



Five days Workshop on

"Smart Computing: A Hands-On Approach to Skill Development in Computer Applications"

Organized by
Department of Computer Applications
in association with Skill Development Cell

Date : 24/03/2025 - 28/03/2025

Time : 11:00 AM to 1:00 PM

Venue : Seminar Hall - C

Target Audience : MCA students



Dr. V. C. Diniesh

Department of Electrical and Electronics Engineering,
Amrita School of Engineering, Amrita Vishwa Vidyapeetham,
Coimbatore, Tamil Nadu, India

Chief Patron	Patron	Program Chair	Convener	Coordinator
Dr. N. Vijaya Bhaskar Choudary Secretary & Correspondent	Mrs. Keerthi Nadella Executive Director	Dr. C. V. Varaj Principal	Dr. N. Naveen Kumar HOD/Dept. of MCA	Mrs. S. Suganya Asst. Prof. Dept. of MCA

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Objective:

The primary goal of this Workshop series was to enhance the practical skills of MCA students in contemporary computer applications, emphasizing smart computing technologies. The sessions aimed to bridge the gap between academic knowledge and industry requirements, fostering a hands-on learning environment.

Session Overview:

Day 1: March 24, 2025

The program started with a welcome address by our beloved Dr. N. Naveen Kumar, Head, Department of Computer Applications, MITS, followed by introduction about the resource person to the audience by Mrs. S. Suganya, Assistant Professor, Department of Computer Applications, MITS. She has given a short note on resource person Dr. V. C. Diniesh, Department of Electrical and Electronics Engineering, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore, Tamil Nadu, India. He started giving the hands on workshop.

Topic: *Introduction to Smart Computing and Its Relevance*

Mr. Sivagnanam provided an overview of smart computing, discussing its evolution and significance in today's digital era. He highlighted the integration of artificial intelligence, machine learning, and data analytics in developing intelligent systems.

Day 2: March 25, 2025

Topic: *Cloud Computing and Virtualization Techniques*

The session delved into cloud computing architectures, service models (IaaS, PaaS, SaaS), and virtualization. Practical demonstrations showcased deploying applications on cloud platforms, emphasizing scalability and resource optimization.

Day 3: March 26, 2025

Topic: *Data Analytics and Visualization Tools*

Students were introduced to data analysis methodologies using tools like Python's Pandas and visualization libraries such as Matplotlib and Tableau. Real-world datasets were analyzed to extract meaningful insights.

Day 4: March 27, 2025

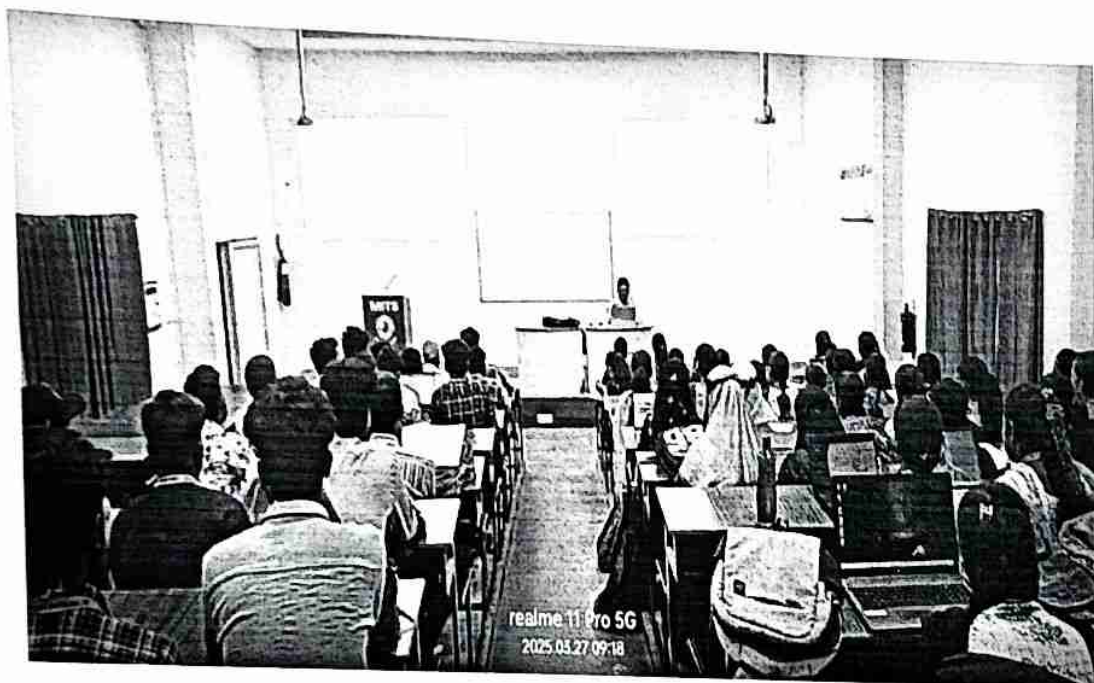
Topic: *Cybersecurity Fundamentals and Best Practices*

This session covered the basics of cybersecurity, including threat identification, risk assessment, and mitigation strategies. Mr. Sivagnanam emphasized the importance of secure coding practices and regular vulnerability assessments.

Day 5: March 28, 2025

Topic: *Project Development and Deployment Strategies*

The final day focused on software development life cycles, agile methodologies, and deployment strategies. Students engaged in a mini-project, applying the concepts learned throughout the week.



Outcomes:

- Enhanced Practical Skills: Students gained hands-on experience with modern tools and technologies relevant to smart computing.
- Industry Insight: Exposure to real-world applications and industry best practices prepared students for future professional endeavors.
- Interactive Learning: The sessions encouraged active participation, fostering a collaborative learning environment.
- Project Experience: The mini-project enabled students to integrate and apply their knowledge in a practical setting.

Feedback:

Participants expressed high satisfaction with the lecture series, appreciating the clarity of explanations and the relevance of topics covered. The hands-on approach was particularly lauded, with many students expressing increased confidence in applying these skills in real-world scenarios.

Conclusion:

The five-day Workshop series successfully achieved its objectives, equipping MCA students with essential skills in smart computing and contemporary computer applications. The institution extends its gratitude to Mr. S. Sivagnanam for his valuable contribution and looks forward to future collaborations. The vote of thanks given by Dr. Mohd Sakib, Assistant Professor, Department of Computer Applications, MITS.


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