



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(An Autonomous Institution)

[Sponsored by Lavu Educational Society, Affiliated to JNTUH & Approved by AICTE, New Delhi]
Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301 Phone: +91 96529 10002/3



Department of Information Technology

Date: 29-06-2025

To
The Principal,
VMTW,
Kondapur-Ghatkesar.

Subject: Request for Budget Approval – FDP on Quantum Computing (5 Days)

Dear Sir/Madam,

I would like to request approval for the budget related to trainers for conducting a **Faculty Development Program (FDP) on Quantum Computing** for faculty members for a duration of 5 days (from 30-06-2025 to 05-07-2025).

The FDP aims to enhance faculty knowledge in emerging areas of Quantum Computing, including quantum bits (qubits), superposition, entanglement, quantum gates, quantum circuits, quantum algorithms, and practical exposure using modern quantum computing platforms. This program will strengthen research capabilities, promote innovation, and improve academic excellence within the department.

In this regard, we propose engaging qualified external trainers with expertise in Quantum Computing and related technologies. We will also need to provide them with accommodation and transportation facilities during the 5-days FDP.

The expected total expenditure for the same is ₹50,000/- (Fifty Thousand Only), with respect to remunerations, Snacks & Tea, Lunch & Memento's,

Kindly approve the same.

Thanking you, Sir.

Yours Sincerely,

Ranjith

Mr. J. Ranjith
Associate Professor,
IT Department

*forwarded to
Principal Sir for
approval*
[Signature]

Approved
[Signature]





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VMTW/ IT/ Events/2025/15

Department of Information Technology

29/06/2025

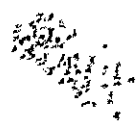
CIRCULAR

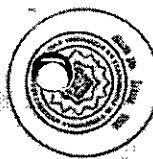
This is to inform all the HODs and staff that there will be an FDP on “Quantum Computing”, from 30/05/2025 to 05/07/2024 at seminar hall. All the Faculty are here by informed to assemble in the seminar hall by 10.00 am. The resources persons are from Industry and reputed Academia like NITs.


HOD-IT

Copy to

1. The Principal
2. HOD-IT
3. HOD- CSE
4. HOD-CSE(DS)
5. HOD- CSE(AI&ML))
6. HOD-ECE
7. HOD- BSH
8. Notice Board





EMPOWERING WOMEN

Department of Information Technology

Organizes
One Week FDP on

"Quantum Computing"

CHIEF PATRON

Dr. L. Rathaiah

Chairman, Vignan Group of Institutions.

Mr. B. Shravan

CEO, Vignan Group of Institutions



Dates

30-06-2025

to

05-07-2025



Venue

VMTW

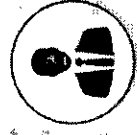
CONVENOR



Dr. D. Shanthi

Professor & HOD, IT

PATRON



Dr. G. Apparao Naidu

Principal, VMTW

COORDINATORS



Dr. J. Ranjith

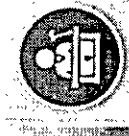
Assistant Professor, IT

S. Chandrasekhar

Assistant Professor, IT

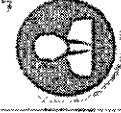
Registration Link: <https://tinyurl.com/QuantumComputing>

RESOURCE PERSONS



Dr. B. Narendra Kumar

Professor,
Department of CSE,
SWEC, Hyderabad.



Mr. Hari Akki Raju,

CDO,
Dev Dolphins,
Hyderabad.



Dr. P. Syam Kumar,

Associate Professor,
IDRBT, Hyderabad.



Dr. M. V. Vijaya Saradhi,

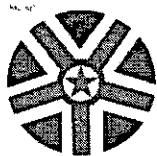
Professor,
Dept of CSE,
ACE Engineering College,
Hyderabad.



Dr. BWV Siva Prasad

Associate Professor,
Department of CSE,
Anurag University,
Hyderabad.





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Department of Information Technology

Faculty Development Programme (FDP) Report On "Quantum Computing"

Dates: 30th June 2025 – 05th July 2025

Organized by: Vignan's Institute of Management and Technology for Women

Number of Participants: 45

1. Introduction

The Faculty Development Programme (FDP) titled "**Quantum Computing**" was conducted from 30th June 2025 – 05th July 2025 at Vignan's Institute of Management and Technology for Women.

The objective of the FDP was to provide faculty members with a comprehensive understanding of Quantum Computing, from theoretical foundations to practical, hands-on applications, enabling them to integrate these skills into their teaching and research activities.

2. Participants

The programme was attended by **45 faculty members** from host institution. The participants represented multiple disciplines, with a majority from Computer Science and related fields.

3. Resource Persons

The sessions were delivered by eminent academicians, researchers, and industry experts, including:

1. **Dr. B. Narendra Kumar**– Professor, Department of IT, SWEC, Hyderabad.
2. **Mr. Hari Akki Raju** – CDO, Dev Dolphins, Hyderabad.
3. **Dr. P. Syam Kumar**, – Associate Professor, IDRBT, Hyderabad
4. **Dr. M. V. Vijaya Saradhi** – Professor, Dept of CSE, ACE Engineering College, Hyderabad.
5. **Dr. BVV Siva Prasad**– Associate Professor, Department of CSE, Anurag University, Hyderabad.

4. Programme Schedule & Highlights

The FDP schedule spanned Five days, covering:

- **Day 1:** Introduction to Quantum Computing, limitations of classical computing, basic concepts of quantum mechanics, qubits, superposition, entanglement, quantum gates, and overview of quantum computing applications.
- **Day 2:** Quantum circuits and quantum gates (Pauli, Hadamard, CNOT), quantum measurement concepts, Bloch sphere representation, quantum circuit design, and hands-on simulation using IBM Quantum Experience.
- **Day 3:** Quantum algorithms including Deutsch–Jozsa algorithm, Grover’s search algorithm, and introduction to Shor’s algorithm, along with practical demonstrations using Qiskit.
- **Day 4:** Quantum programming concepts, building quantum circuits, quantum simulators, noise in quantum systems, quantum error correction basics, and hands-on sessions using Qiskit.
- **Day 5:** Applications of quantum computing in cryptography, optimization, and machine learning, overview of quantum hardware platforms, future trends in quantum technologies, and project demonstration using IBM Quantum Experience.

5. Hands-on Sessions

In **Quantum Computing** Special emphasis was placed on practical implementation of quantum circuits and algorithms using modern quantum programming tools.



Participants engaged in exercises such as:

- Designing and executing quantum circuits
- Implementing quantum gates and quantum algorithms
- Simulating qubit states and measurement results
- Running programs on quantum simulators

6. Outcome of the FDP

By the end of the programme, participants:

- Participants gained a fundamental understanding of quantum computing concepts such as qubits, superposition, and quantum gates.
- Faculty members learned about quantum algorithms and their applications in cryptography and optimization.
- Hands-on experience was provided using IBM Quantum Experience and Qiskit.
- Participants developed the ability to integrate quantum computing concepts into teaching and research activities.
- The program encouraged participants to explore advanced research opportunities in emerging quantum technologies.

7. Feedback Summary

Participant feedback indicated high satisfaction with the FDP, citing:

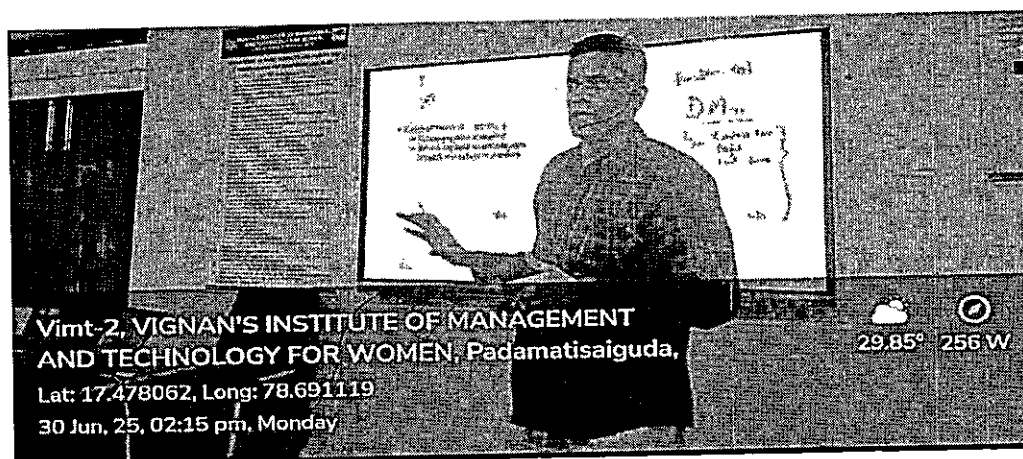
- Participants appreciated the well-structured sessions covering both theory and practical aspects.
- Resource persons were highly knowledgeable and explained complex topics clearly.
- Hands-on sessions were very helpful in understanding quantum circuit design and programming.
- The program was considered relevant to current technological and research trends.
- Overall feedback indicated high satisfaction with the quality and usefulness of the FDP.

9. Conclusion

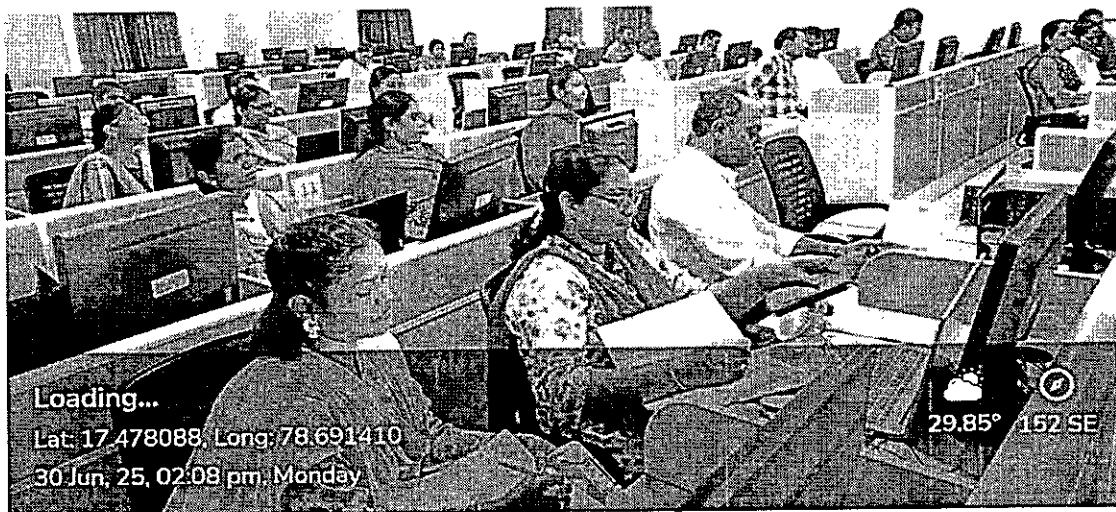
The Faculty Development Programme on Quantum Computing successfully provided participants with a comprehensive understanding of fundamental and advanced quantum computing concepts.

The sessions effectively combined theoretical knowledge with practical exposure using tools like IBM Quantum Experience and Qiskit. The FDP enhanced participants' awareness of emerging quantum technologies and their applications in various domains. Overall, the program encouraged faculty members to integrate quantum computing concepts into teaching, research, and future academic initiatives.

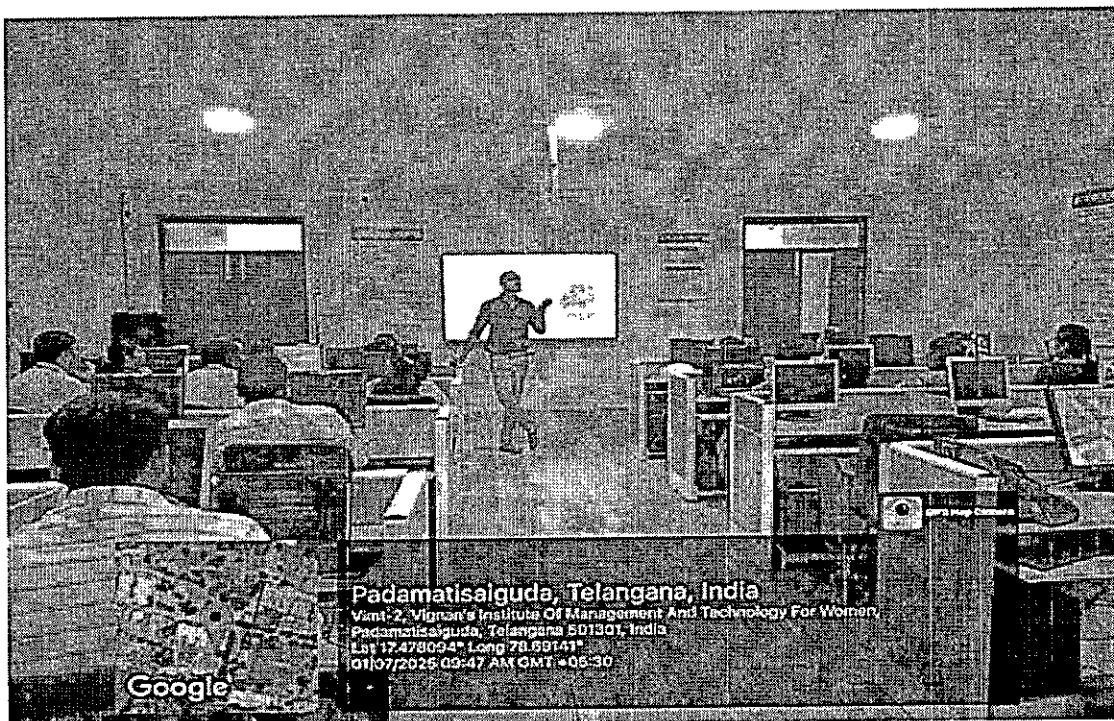
10. Photo Gallery



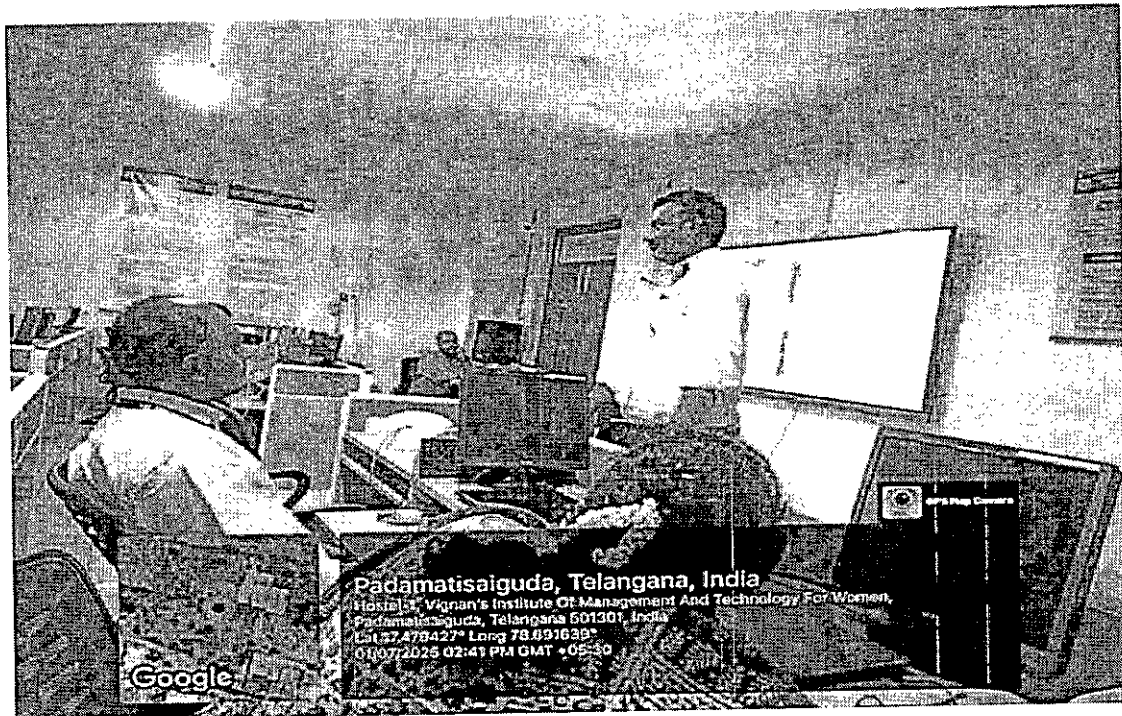
- Day-1: **Hari Akkiraju** – COO & CIO, DevDolphins Pvt. Ltd.



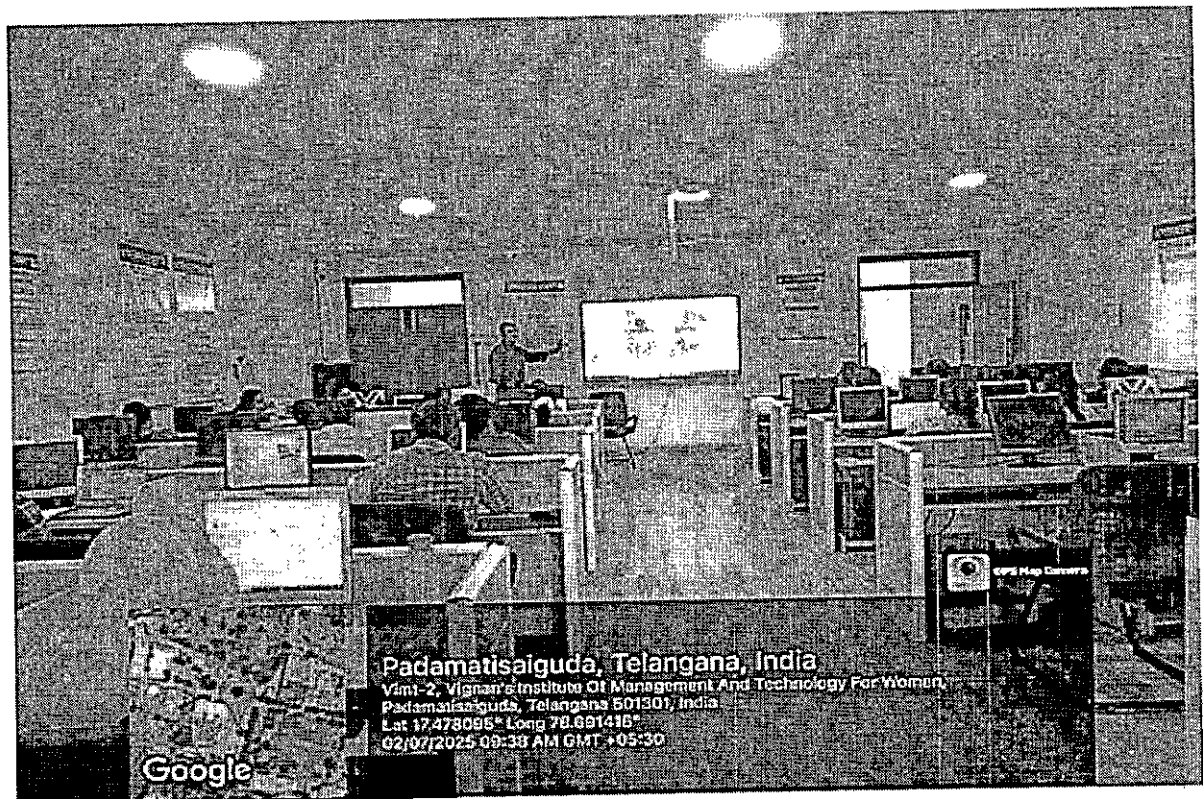
- Day-1: Participants



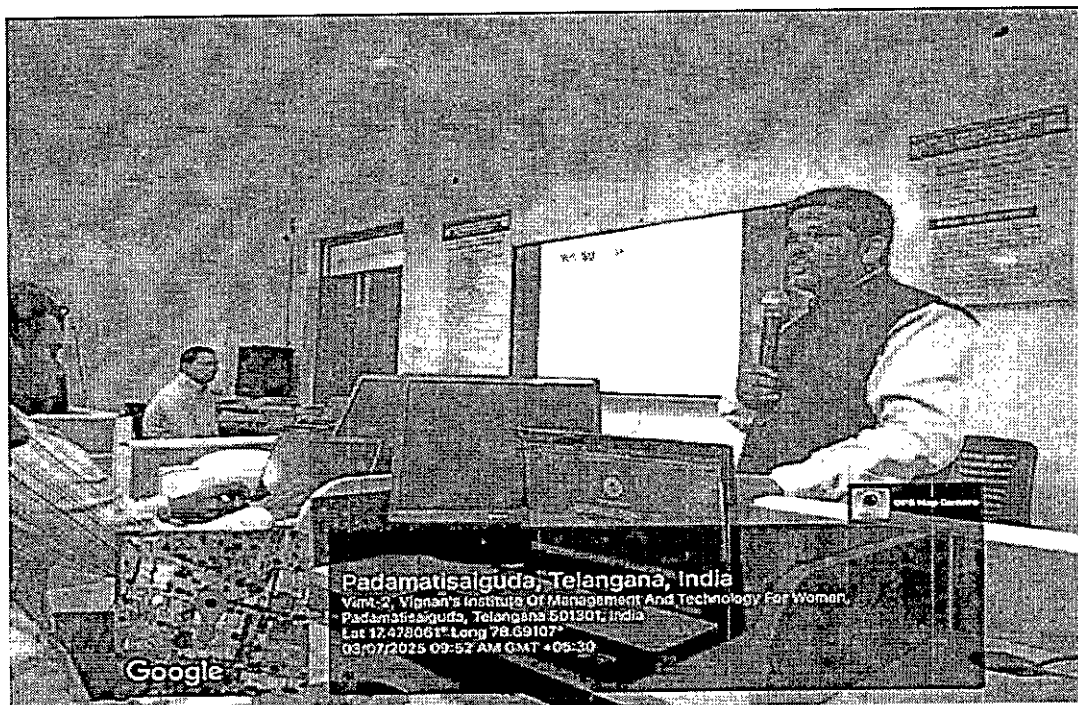
- Day-2-FN: **Prof. Venkateswara Rao Kagita** – Assistant Professor, CSE, NIT Warangal



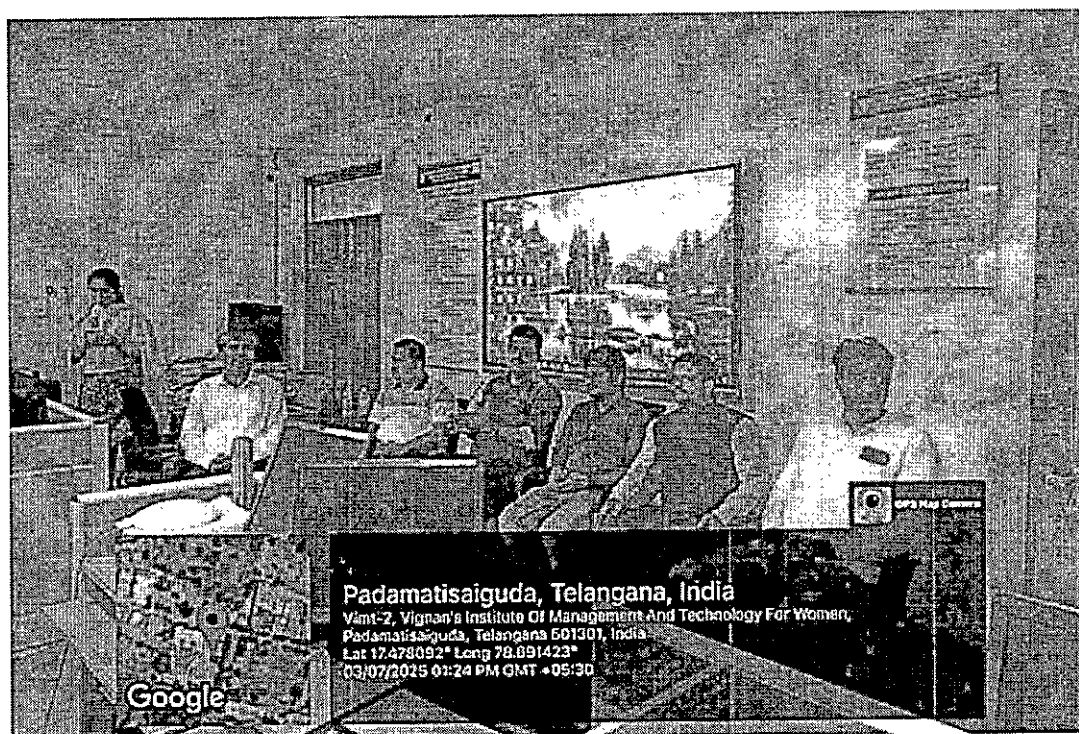
- Day-2-AN: **Mr. T Naveen Kumar Medeva** – Vice President, Medeva Healthtech Pvt. Ltd



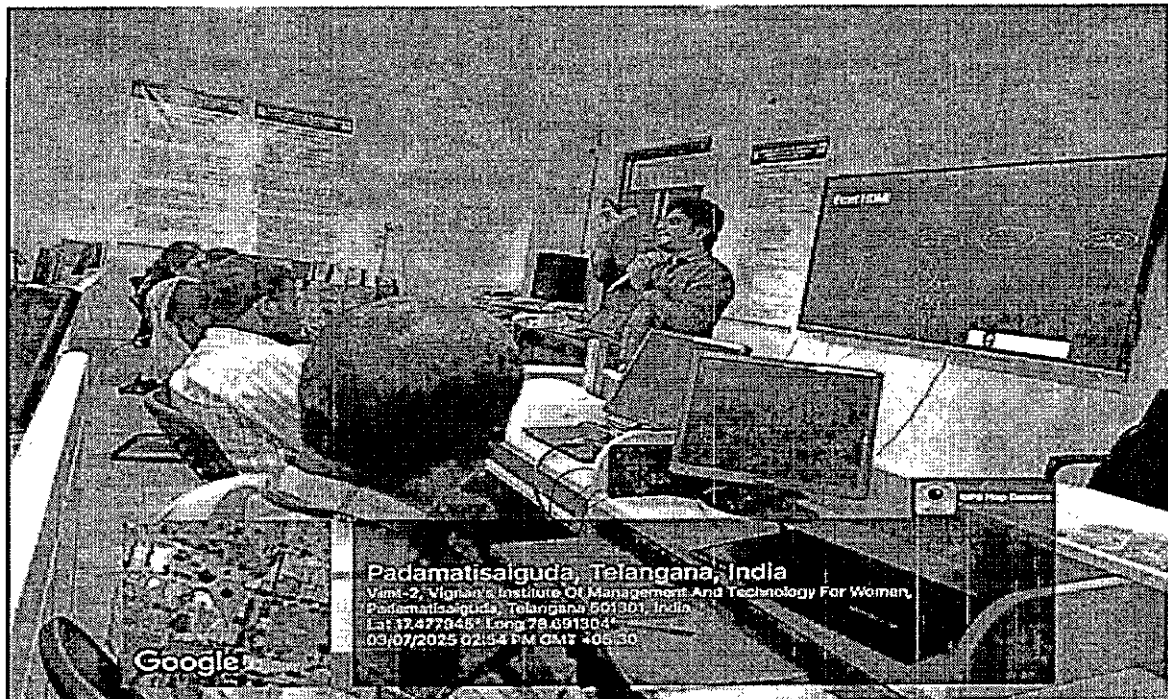
- Day-3: **Dr. Vijay Nalamothu** – Senior Consultant, Deloitte



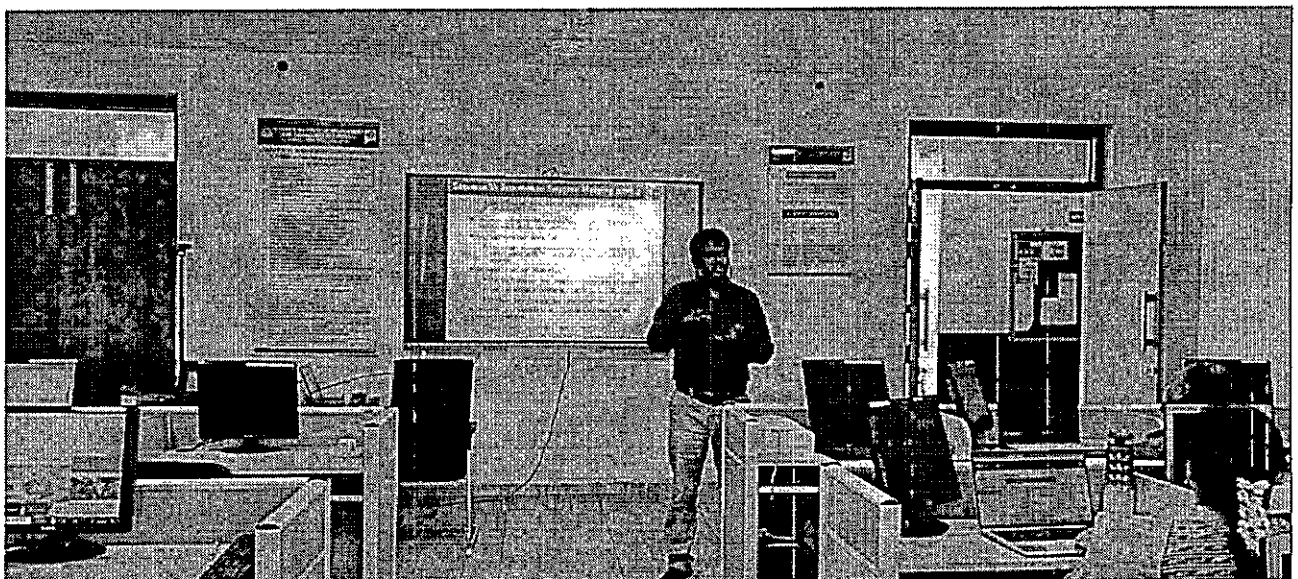
- Day-4-FN: **Dr. Korra Sathya Babu** – Assistant Professor, IIITDM Kurnool



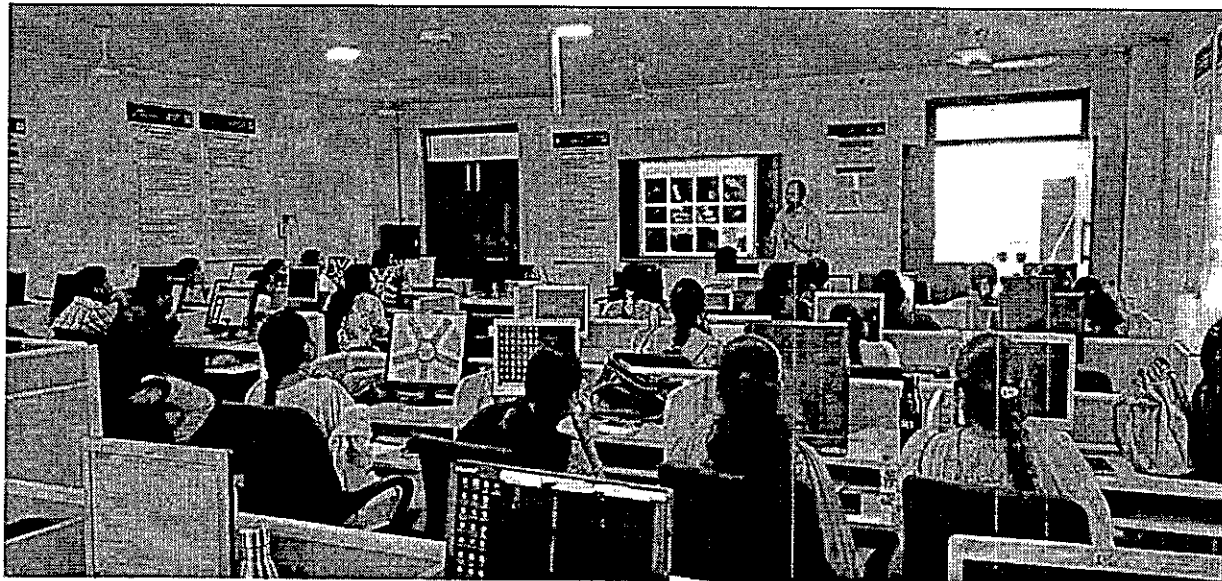
- Day-4-FN: **Dr. Nagaraju K** – Assistant Professor, IIITDM Kurnool



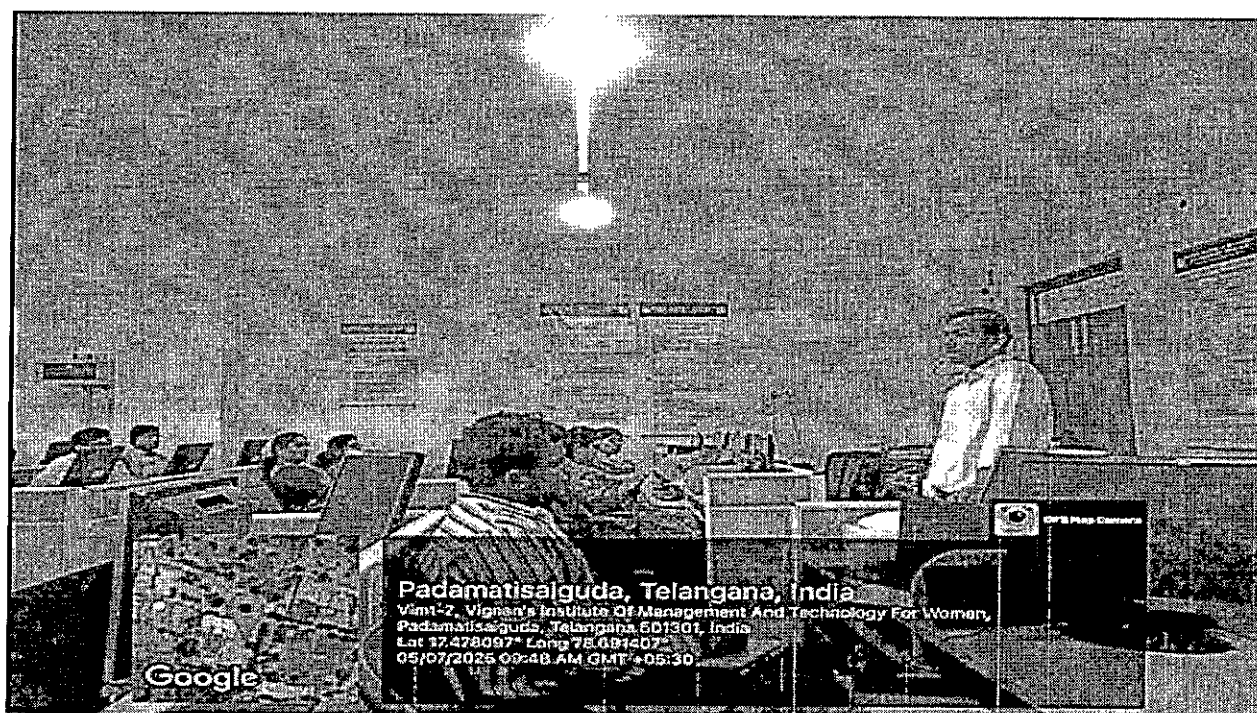
- Day-4-AN: **Prof. Ramalingaswamy Ch** – Assistant Professor, CSE, NIT Warangal



- Day-5-FN: **Prof. Masilamani V** – Professor, CSE, IIITDM Kancheepuram

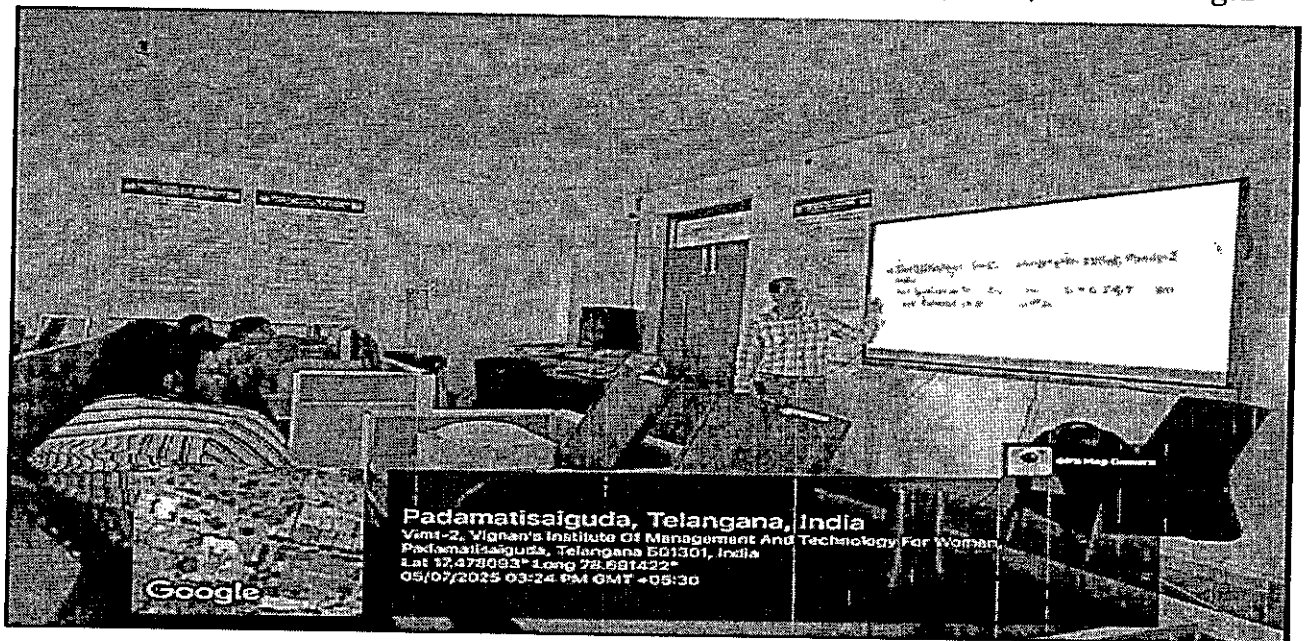


- Day-5-AN: **Dr. Vijender Busi Reddy** – Scientist, ISRO





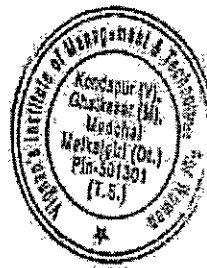
- Day-6-FN: **Prof. Balaprakasa Rao Killi** – Assistant Professor, CSE, NIT Warangal



- Day-6-AN: **Mr. Gopinadh K** – Lead Software Engineer & Vice President, Wells Fargo

Coordinator

(Dr.D.Shanthi)



PRINCIPAL

Vignana's Institute of Management & Technology For Women
Kandapur(V), Barkur(M), Medchal
Wells Fargo (Dr.) Pin-501301
Telangana State

(Dr.G.Apparao Naidu)

