











In Celebration of the GOLDEN JUBLIEE of Siddhartha Academy of General & Technical Education(1975-2025)

REPORT ON GUEST LECTURE "THE ROLE OF MATHEMATICS IN AI"

Organized by Department of Mathematics

Day & Date: Friday 5-12-2025

Venue: Webinar Hall

Time: 3:00PM-5.00PM

PARTICIPANTS: Students of I B.Sc Honours Mathematics & AI

II B.Sc Honours Mathematics and

III B.Sc Honours Mathematics

RESOURCE PERSON: Dr Vijayakrishna Rowthu

Assistant Professor,

Department of Mathematics,

School of Engineering and Sciences,

SRM University - AP

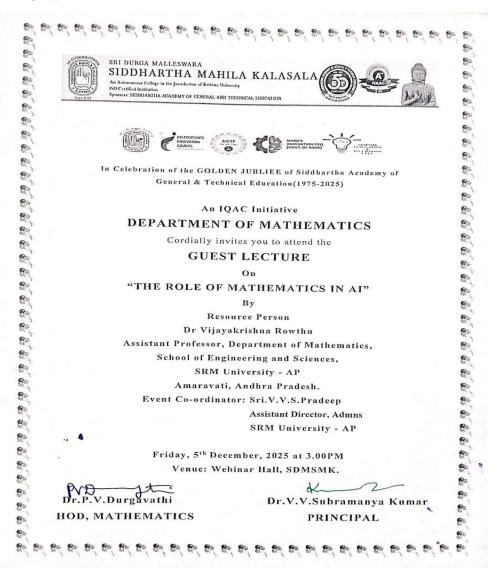
Amaravati, Andhra Pradesh-522240

Event Co-ordinator: Sri.V.V.S.Pradeep

Assistant Director, Admns

SRM University - AP

INVITATION:



PROGRAMME SHEET

3.00PM - 3.05PM : Welcoming the guests on to the Dias

3.05PM - 3.10PM : Prayer Song

3.10PM - 3.15PM : Address by Principal & HOD

3.15PM - 3.20PM : Introducing the Resource Person

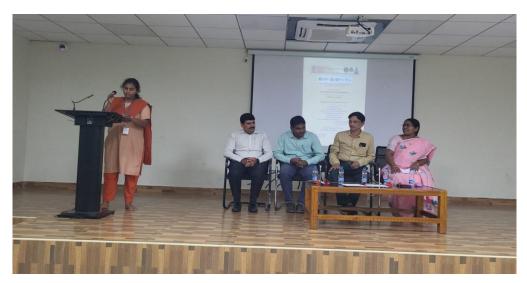
3.20PM - 4.55PM : Session by Resource Person

4.55PM - 5.00PM : Vote of thanks

OBJECTIVE: The main objective of the guest lecture was to provide students with an understanding of how mathematical concepts form the foundation of Artificial Intelligence (AI) and to highlight the growing importance of interdisciplinary skills in the modern technological landscape.

WORKSHOP HIGHLIGHTS

The Department of Mathematics organized a guest lecture on the topic "The Role of Mathematics in AI" on 5th December 2025 at SDMSMK, Vijayawada. The lecture was delivered by Dr Vijayakrishna Rowthu, from SRM-AP University, Amaravati, who has extensive expertise in the fields of Mathematics and Artificial Intelligence.



PRAYER SONG BY THE STUDENTS



WELCOMING THE RESOURCE PERSON



WELCOMING THE EVENT COORDINATOR



PRINCIPAL OPENING REMARKS



ADDRESSING THE GATHERING BY HOD



BIO-DATA OF RESOURCE PERSON



- ❖ He has completed masters in 2005 and Ph.D. in Mathematics, Indian Institute of Technology, Kanpur, India in 2008.
- Experience: 2015-2017, Post Doctoral Associate, UPMC, Pittsburgh, PA, USA 2008-2009, Subject Matter Expert, Cramster. Learning Inc., Visakhapatnam, India.
- * Research Interest: Mathematical modelling using partial differential equations to solve image inpainting problems and Finding a global

solution to the problem of fiber tracking in human brain white matter using variational calculus and nonlinear optimization techniques.

- ❖ Awards: 2010 Junior Research Fellowship CSIR-UGC.
- ❖ Publications: Multi-Modal Potential Based Non-linear PDE Model for Grayscale Image Inpainting and Higher order PDE based model for segmenting noisy image.
- Research Area: Applied Mathematics and Mathematical Modelling Differential Equations
 Artificial Intelligence and Machine Learning

RESOURCE PERSON TALK

Resource Person began the session by explaining the meaning of Artificial Intelligence, its evolution, and its role in enabling machines to perform tasks that require human-like intelligence.



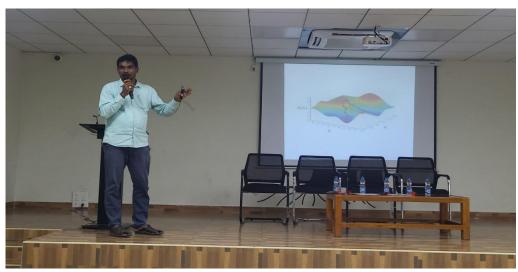
KEY POINTS COVERED:

- ➤ What is AI?
- Mathematical Foundations of AI: The resource person highlighted how
 AI is fundamentally built on strong mathematical concepts. Key areas
 discussed included: Linear Algebra vectors, matrices, transformations
 Calculus optimization, gradients, rates of change

Probability & Statistics

Discrete Mathematics - logic, algorithms, graphs

- Machine Learning Through a Mathematical Lens
- Major ML Paradigms
- > The Tough and Real Questions in AI
- Key Mathematical Pillars of AI
- > Applications of AI
- ➤ Interdisciplinary Links: The session encouraged students to explore combinations of Mathematics with Computer Science, Statistics, Data Science, and Engineering, reflecting the interdisciplinary nature of AI.
- Future Directions: He concluded with the future scope of AI, urging students to strengthen their mathematical foundation to excel in AI-related careers.







SESSION BY EVENT COORDINATOR

Following the lecture, Sri.V.V.S.Pradeep, the Event Coordinator, addressed the students. He provided:

- Tips on improving Cumulative Grade Point Average (CGPA)
- Importance of skill development for academic and career advancement
- Guidelines on body language, communication, and confidence while facing interviews
- Insights about company expectations and the growing demand for analytical and technical skills.



INTERACTION SESSION

Students actively participated in the question—answer session. They raised queries regarding:

- The role of specific mathematical concepts in AI
- Career opportunities in Machine Learning and Data Science
- How to begin learning AI tools and programming
- Future research directions in Mathematics and AI

The resource person addressed all questions patiently and encouraged students to pursue continuous learning.



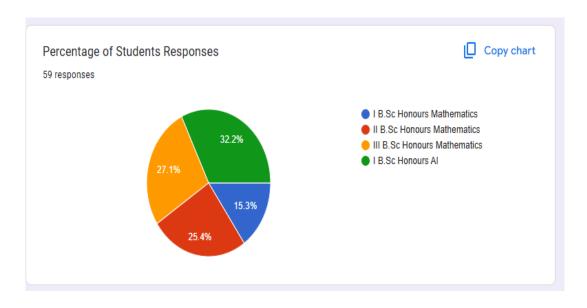


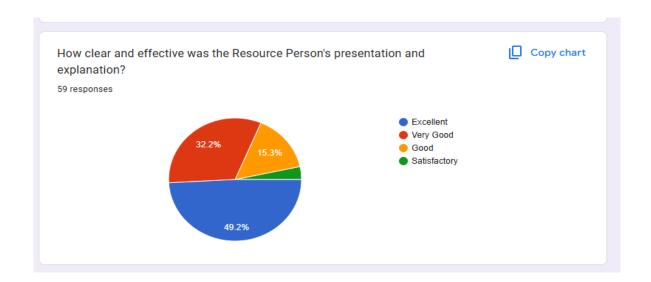


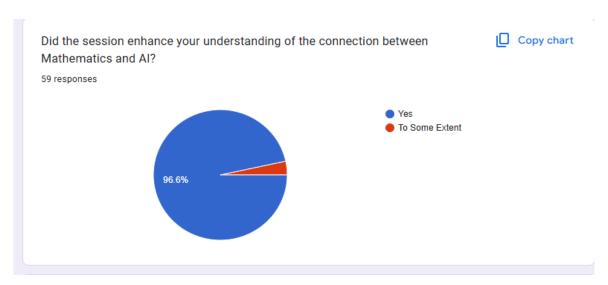
OUTCOME:

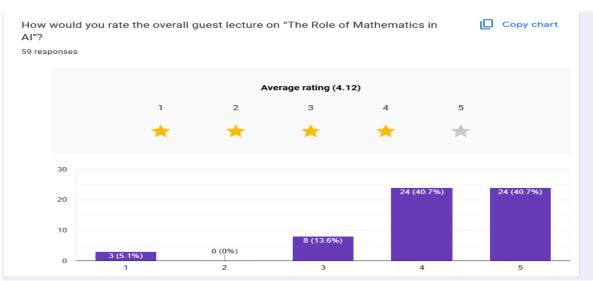
- Students gained a clear understanding of how Mathematics acts as the backbone of Artificial Intelligence.
- The session strengthened their interest in exploring AI-related fields.
- Students learned about essential academic skills, interview readiness, and career planning.
- The programme successfully linked theory with practical applications, motivating students to pursue interdisciplinary learning.

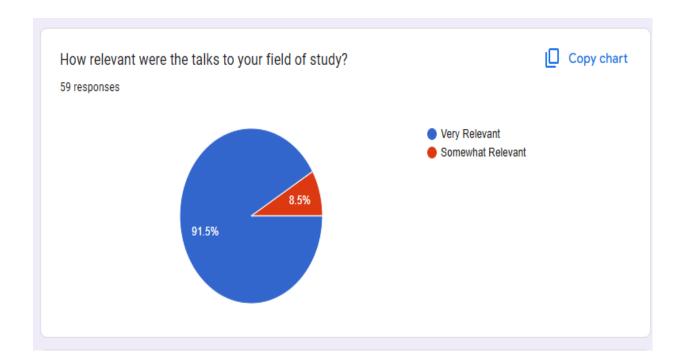
FEEDBACK FROM STUDENTS

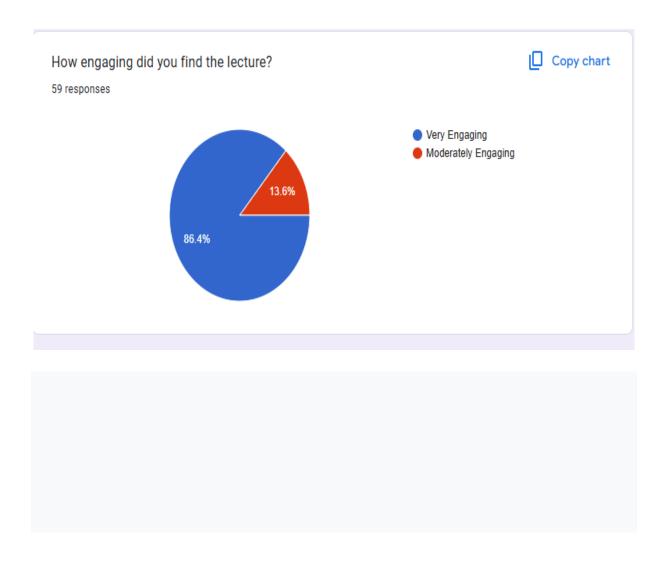












ATTENDANCE SHEET

ATTENDANCE SHEET

DEPARTMENT OF MATHEMATICS GUEST LECTURE

ON

"THE ROLE OF MATHEMATICS IN AI" Resource Person: Dr Vijayakrishna Rowthu

Assistant Professor, Department of Mathematics, School of Engineering and Sciences, SRM University – AP, Amaravati, Andhra Pradesh. DATE: 5.12.2025 (FRIDAY) TIME: 3.00 PM - 5.00 PM

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MEDIA COVERAGE



ప్**ఐలో పట్టుకు గణితంపై అవగాహన** అవసరం

లబ్ఫీపేట(విజయవాదతూర్పు): ఏఐలో పట్టు సాధించాలంటే గణితంపై అవగాహన అవసరమని ఎస్ఆర్ఎం యూనివర్సిటీ అసిస్టెంట్ ప్రొఫెసర్ డాక్టర్ ఆర్.విజయకృష్ణ అన్నారు. ఎంజీ రోడ్డులోని శ్రీ దుర్గామల్లేశ్వర సిద్ధార్థ మహిళా కళాశాల గణిత శాస్త్ర విభాగం ఆధ్వర్యాన శుక్రవారం ది రోల్ ఆఫ్ మేథమెటిక్స్ ఇన్ ఏఐ అంశంపై సదస్సు జరిగింది. విజయకృష్ణ మాట్లాడుతూ ఏఐలో గణితం పాత్ర, ఏఐపీ ఉపయోగించడానికి గణితం ఎలా ఉపయోగి స్వామో తెలియజేశారు. మెషిన్ లెర్నింగ్ తెలియజే స్తూ, దాన్ని ఎలా ఉపయోగించాలో వివరించారు. కార్యక్రమంలో ఎస్ఆర్ఎం మరో అసిస్టెంట్ ప్రొఫెసర్ వీఎస్ఎస్ ప్రదీప్, కళాశాల ప్రిన్సిపాల్ వీవీఎస్ కుమార్, గణితశాస్త్ర విభాగాధిపతి మీవీ



పఐ వినియోగంలో గణితం ప్రాధాన్యాన్మి వివరిస్తున్న విజయకృష్ణ, వేబికపై అధ్యాపకులు

దుర్గావతి, అధ్యాపకులు బి.కిరణ్మయి, కె.భాను ట్రియ, వై.ట్రరూప, ఎన్.జాహ్నవీదేవి తదితరులు పాల్గొన్నారు.

06/12/2025 | Vijayawada East | Page : 11 Source : https://epaper.sakshi.com/



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శ్రీ దుర్గా మల్లేశ్వర సిద్ధార్థ మహిళా కళాశాల గణిత శాస్త్ర విభాగం వారి ఆధ్వర్యంలో నిర్వహింపబడిన గెస్ట్ లెక్చర్

