SREE RAMA ENGINEERING COLLEGE

(AUTONOMOUS)

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An ISO 9001:2015 & ISO 14001:2015 certified Institution
Rami Reddy Nagar, Karakambadi road, Tirupati-517507

SRET/DCE/002/Engineers Day/2024-25

Date: 20.09.2024

DEPARTMENT OF CIVIL ENGINEERING

CIRCULAR

All B. Tech & M. Tech students of CE & EEE are hereby informed that there will be One-day guest lecture on Introduction to the "Environmental Engineering" on 23/09/2024, which is organized by the Department of Civil Engineering. In this context, all the students are instructed to attend the guest lecture without fail.

The Details of the Guest: -

Dr. Narasamma Nippatlapalli,
Assistant Professor,
Department of Civil Engineering,
Indian Institute of Technology Tirupati(IITT),
Yerpedu-Venkatagiri Road, Yerpedu post,
Tirupati – 5175619

For more details, kindly contact **Mrs.S.MonicaSowjanya,** Assistant Professor Department of Civil Engineering.

HOD 20/9/24.

Head of Department
Dept. of Civil Engineering
Sree Rama Engineering College
Rami Reddy Nagar, Karakambadi
TIRUPATI-517 507

PRINCIPAL 20/09/24

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KARAKAMBADI ROAD, TIRUPATI-517507

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2. IQAC
3. The Principal's Office
4. Class Rooms- CE & EEE

SREE RAMA
ENGINEERING COLLEGE
(AUTONOMOUS)

Approved by AICTE
Affiliated to JNTUA
NAAC

20th September 2024,
Tirupati.

From
Prof. K.Jaya Chandra M.Tech ,Ph.D
Principal

To
Dr. Narasamma Nippatlapalli,
Assistant Professor,
Department of Civil Engineering,
Indian Institute of Technology Tirupati(IITT),
Yerpedu - Venkatagiri Road, Yerpedu post,
Tirupati – 5175619

Sub: Resource Person-One-day Guest Lecture-Under Indian Society of Earthquake Technology(ISET)-Civil Engineering Department - Reg.

*****

Department of Civil Engineering (CE), Sree Rama Engineering College is organizing one-day guest lecture under ISET on 23.09.2024, for the benefit of students on topic **"Introduction to Environmental Engineering".** In this context we would like to invite you as resource person for the above guest lecture. We would appreciate it very much if you would accept our invitation to deliver session. Your Cooperation in this direction shall be highly appreciated. We are highly thankful for sparing some time from your busy schedule to attend the guest lecture.

We eagerly wait your participation in the Guest Lecture.

Thanks and Regards.

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RAMIREDDY NAGAR
KARAKAMBADI ROAD, TIRUPATI-517507

SREE RAMA ENGINEERING COLLEGE
Date 20/09/24
TIRUPATI

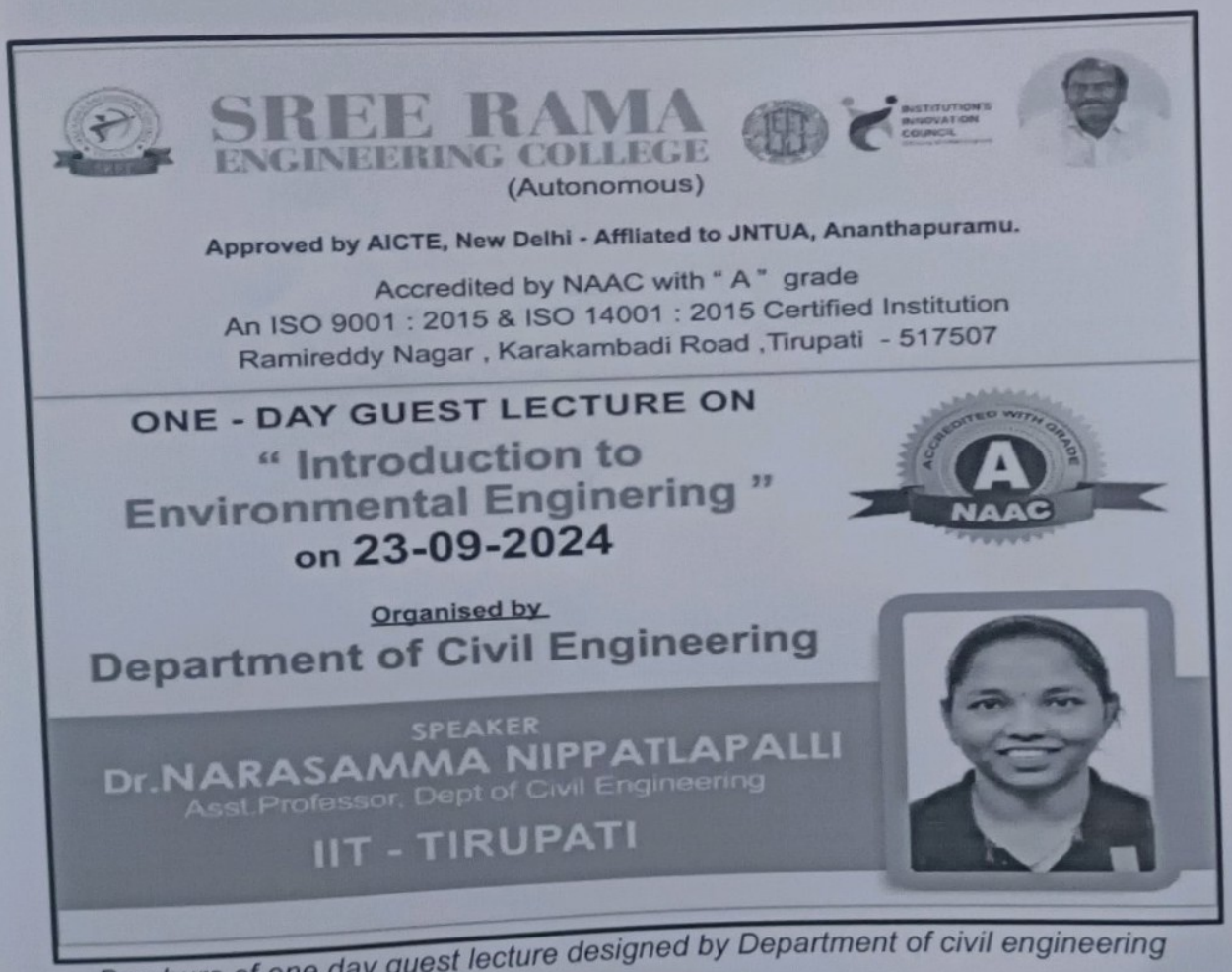
SRET | Date: 23rd September 2024

A Report on

A One-day guest lecture on the topic

Introduction to Environmental Engineering

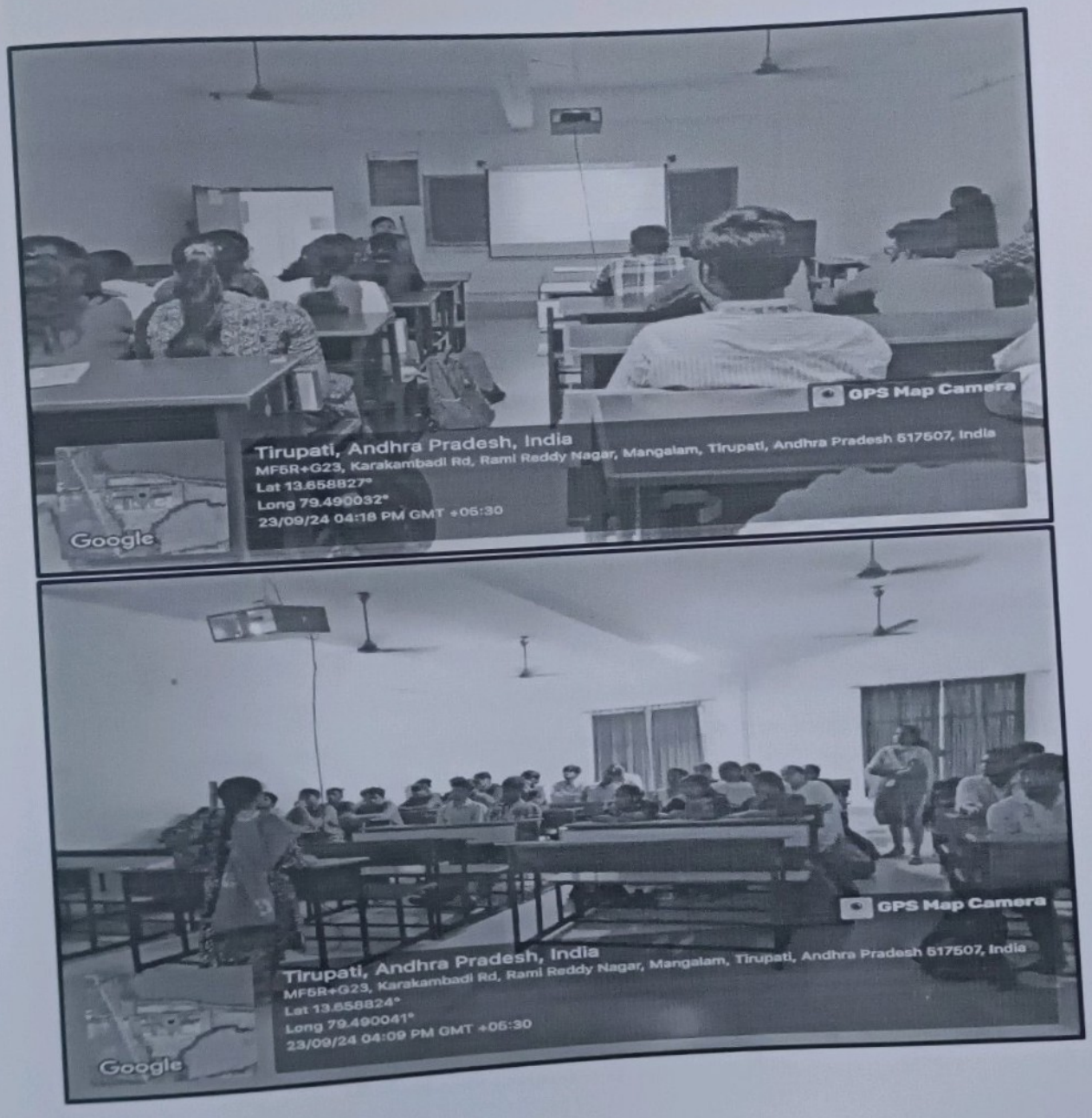
The Civil Engineering Department hosted a guest lecture for undergraduate and postgraduate students from both the Civil Engineering and EEE departments. The lecture, titled "Introduction to Environmental Engineering", was delivered by **Dr. Narasamma Nippatlapalli**, an Assistant Professor in the Civil Engineering Department at IIT-Tirupati.



Brochure of one day guest lecture designed by Department of civil engineering

The purpose of this event was to offer a thorough overview of global environmental issues and their importance. The presentation covered essential ecological concepts, water contamination, evaluation and processing of water and wastewater, handling of solid and hazardous waste. The main aims of this program were as follows:

- To improve young professionals' understanding of basic and intricate environmental issues related to worldwide development and day-to-day business activities.
- Recognising present-day environmental challenges faced by the global community.



Professor K. Jayachandra, the Principal of Sree Rama Engineering College in Tirupati, expressed his appreciation to the guest speaker for accepting the invitation and establishing a conducive atmosphere for the event. He emphasised the speaker's accomplishments and expertise. The principal conveyed his gratitude to the speaker for imparting their knowledge and experiences, and extended appreciation to both staff and students for their participation in the applause.

Dr.K. Jayachandra, Principal Felicitating Speaker

Mr. B. Balakrishna Bharath, who serves as both Assistant Professor and Head of the Department, conveyed gratitude to the invited speaker for their acceptance and valuable contribution to the event's welcoming ambiance.

The event convenor, Assistant Professor Mrs. S Monica Sowjanya from the Civil Engineering Department, expresses gratitude to the guest speaker, principal, and head of the department. She also conveyed thanks to the faculty members and students in attendance.

Convenor

23/9/24.

HOD-CE
Head of the Department
Dept. of Civil Engineering
Sree Rama Engineering College
Pami Reddy Nagar, Karakambadi Road
TIRUPATI-517 507

23/09/24

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A One Day Guest Lecture On
Introduction To Environmental Engineering **23/09/2024**
Department of Civil Engineering
Attendance Sheet

S.NO	ROLL NUMBER	NAME OF THE STUDENT	ATTENDANCE
21	214C1A0201	DAGGOLU HANOK	✓
22	214C1A0202	GUNISETTY HIMANTH	✓
23	224C5A0201	BANDI SURYA PRAKASH	✓
24	224C5A0202	DAMA MUNICHANDRA	✓
25	224C5A0203	G VINOD	✓
26	224C5A0204	GORAVA CHANDRA	✓
27	224C5A0205	KAMPA BHARATH KUMAR	✓
28	224C5A0206	KESANNAGARI DURGA PRASAD	✗
29	224C5A0207	MUDHRA SEENU	✓
30	224C5A0209	S ABHISHEK	✓
31	224C5A0212	Y JANAKI RAMUDU	✓
32	234C1A0101	B.CHAITANYA TEJA	✓
33	234C1A0103	K.PAVAN	✗
34	244C5A0101	CHITLA USHARANI	✓
35	244C5A0102	G CHENCHU RAMAIAH	✗
36	244C5A0103	KAVALI PALLAVI	✓
37	244C5A0104	KUDUMU HEMANTH KUMAR	✓
38	244C5A0105	PALAKALA MEGHANATH	✓
39	244C5A0106	PANDLURU SAI KEERTHI	✓
40	244C5A0107	PASALA NANDINI	✓

Co-ordinator

HOD,CE 23/9
Head of the Department
Dept. of Civil Engineering
Sree Rama Engineering College
Rami Reddy Nagar, Karakambadi Road
TIRUPATI-517 507

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Rami Reddy Nagar, Karakambadi road, Tirupati-517507

A One Day Guest Lecture On **23/09/2024**
Introduction To Environmental Engineering
Department of Civil Engineering
Attendance Sheet

S.NO	ROLL NUMBER	NAME OF THE STUDENT	ATTENDANCE
41	244C5A0108	S CHYTHRA	✓
42	244C5A0109	VARLA NEERAJA	✓
43	214C1A0101	BINGI SADASIVA	✓
44	214C1A0102	GANDHAM CHANDU	✓
45	214C1A0103	THENEPALLI PRANEETH	✓
46	224C5A0101	LAGADAPATI HEMANTH KUMAR	✓
47	224C5A0102	RAYALACHERUVU HARSHAVARDHAN	✓
48	224C5A0103	SHAIK ABBAS ALI	✓
49	234C5A0101	ADIMULAM NAGASREEVEENA	X
50	234C5A0102	KARAMPUDI MAHESWARI	✓
51	234C5A0103	KUNCHAM JYOSTNA	✓
52	234C5A0104	MUNEPPAGARI NANDINI	✓
53	234C5A0105	R HARSHITHA YADAV	✓
54	234C5A0106	THODETI MANIL	X
55	234C5A0107	THUPAKULA SYAMALA	✓
56	234C1D2001	BYRISETTY SURYANARAYANA	✓
57	234C1D2002	CHITTIBABU SUSHMMA	✓
58	234C1D2003	DANTHAM ARUN KUMAR	✓
59	234C1D2004	K LOKESH	✓
60	234C1D2005	KANAKA M	✓

Co-ordinator

HOD,CE 23/9
Head of the Department
Dept. of Civil Engineering
Sree Rama Engineering College
Rami Reddy Nagar, Karakambadi Road
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A One Day Guest Lecture On **23/09/2024**
Introduction To Environmental Engineering
Department of Civil Engineering
Attendance Sheet

S.NO	ROLL NUMBER	NAME OF THE STUDENT	ATTENDANCE
61	234C1D2006	KUNDELLA BALAJI YADAV	✓
62	234C1D2007	NASAM RAJESH REDDY	✓
63	234C1D2008	NEELA MAHESH	✓
64	234C1D2009	REDDIVARI VIJAYKUMAR	✓
65	234C1D2010	SALINDRA PAVANKUMARREDDY	✓
66	234C1D2011	SANIGALA RUKMINI	✓
67	234C1D2012	TAYYURU PAVAN	✓
68	234C1D2013	YALAVALURI BINDUSRI	✓

Co-ordinator

HOD,CE
Head of the Department
Dept. of Civil Engineering
Sree Rama Engineering College
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23/9/24

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SRET/DCE/003/Engineers Day/2024-25

Date: 23.10.2024.

DEPARTMENT OF CIVIL ENGINEERING

CIRCULAR

All B. Tech & M. Tech students of CE are hereby informed that there will be One-day guest lecture on Introduction to the "**Machine Learning applications in Civil-Earthquake Engineering.**" on 25/10/2024, which is organized by the Department of Civil Engineering. In this context, all the students are instructed to attend the guest lecture without fail.

The Details of the Guest: -

Dr. Yellapragada Meenakshi, Ph.D (IITM)
Assistant Professor,
Department of Civil Engineering,
SIETK,Puttur.

For more details, kindly contact **Mrs.K.Roop Sagar,** Assistant Professor Department of Civil Engineering.

23/10/24.

HOD

PRINCIPAL 23/10/24

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Dept. of Civil Engineering
Sree Rama Engineering College
Rami Reddy Nagar, Karakambadi Road
TIRUPATI-517 507

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4. Class Rooms- CE
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(AUTONOMOUS)

Approved by AICTE
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NAAC

23rd September 2024,
Tirupati.

To
Dr. YALLAPRAGADA MEENAKSHI, Ph.D (IITM)
Assistant Professor,
Department of Civil Engineering,
SIETK-Puttur.

Sub: Resource Person-One-day guest lecture-under Indian Society of Earthquake Technology (ISET)-Civil Engineering Department - Reg.

Department of Civil Engineering (CE), Sree Rama Engineering College is organizing one-day guest lecture under ISET on 25/10/2024, for the benefit of students on topic **"Machine Learning applications in Civil-Earthquake Engineering".** In this context we would like to invite you as resource person for the above guest lecture. We would appreciate it very much if you would accept out invitation to deliver session. Your Cooperation in this direction shall be highly appreciated. We are highly thankful for spare some time from your busy schedule to attend the guest lecture.

We eagerly wait your participation in the Guest Lecture.

Thanks and Regards.

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RAMIREDDY NAGAR
KARAKAMBADI ROAD, TIRUPATI-517507

SREE RAMA ENGINEERING COLLEGE
Date. 23/10/24
TIRUPATI

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Rami Reddy Nagar, Karakambadi road, Tirupati-517507

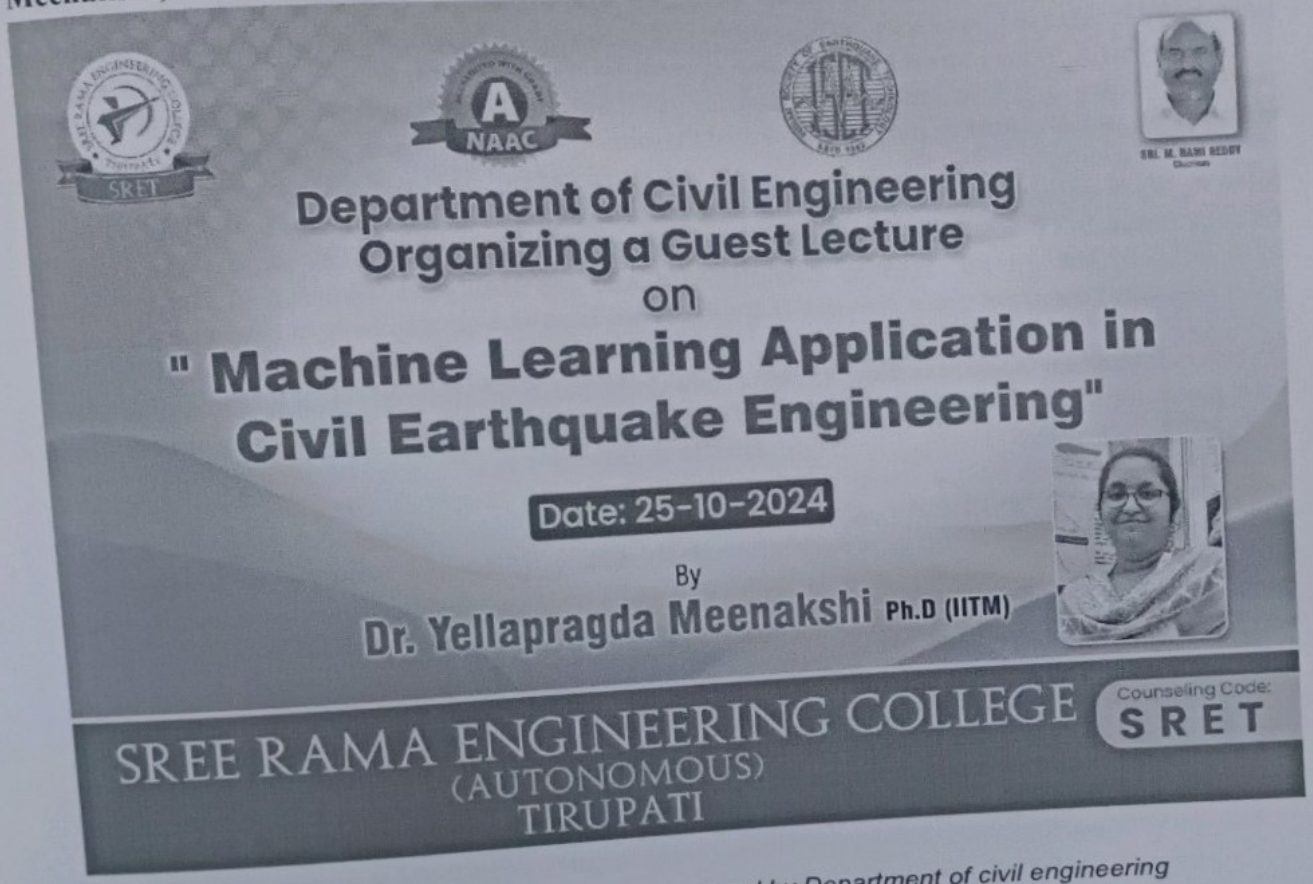
ET | Date: 25rd october 2024

A Report on

A One-day guest lecture on the topic

Machine learning applications in civil-Earthquake Engineering

The Civil Engineering Department hosted a guest lecture for undergraduate and postgraduate students from both the Civil Engineering department. The lecture, titled **"Machine learning applications in civil-Earthquake Engineering"**, was delivered by Dr. **Yellapragada Meenakshi**, an Assistant Professor in the Civil Engineering Department at SIETK-puttur.



Brochure of one-day guest lecture designed by Department of civil engineering

The purpose of this event was to gain knowledge on Machine Learning application in civil earthquake engineering and their importance. The presentation covered basics earthquake concepts, terminology and analysis of earthquakes in different Zones using AIML.

Seismic **Signal Analysis**: ML models can analyze seismic signals to detect patterns that might indicate impending earthquakes. Models like **support vector machines (SVMs)** and **recurrent neural networks (RNNs)** are used to classify earthquake signals and differentiate them from background noise.

Earthquake **Forecasting**: By training models on historical seismic data, machine learning can help forecast earthquake likelihoods based on geophysical indicators. Deep learning approaches, such as **convolutional neural networks (CNNs)** and **long short-term memory networks (LSTMs)**, are particularly valuable for time series prediction in this context.

Early **Warning Systems**: Real-time data from sensors can feed into ML models to provide early warnings, giving communities and infrastructure valuable response time.

Damage **Detection and Classification**: Machine learning algorithms can analyze vibrations and structural responses to detect damage, even when it's not visible to the naked eye. Techniques like **anomaly detection**, **decision trees**, and **k-nearest neighbors (k-NN)** are commonly applied for identifying damage types and locations in structures.

Continuous **Monitoring Systems**: ML models trained on normal operation data can recognize deviations that indicate structural issues or degradation. This approach uses sensor data from buildings, bridges, and other infrastructure to provide ongoing assessments.

Automated **Post-Event Analysis**: After an earthquake, ML models can quickly assess the data from SHM systems to estimate the extent of structural damage, prioritize inspections, and assist with rehabilitation efforts.

Predicting **Building and Infrastructure Vulnerability**: ML can assess the vulnerability of buildings, bridges, and other infrastructure to earthquakes based on structural parameters, materials, location, and historical seismic data. Models like **random forests**, **SVMs**, and **gradient boosting** can evaluate the potential impact and predict failure probabilities.

Site-**Specific Seismic Hazard Assessment**: By analyzing regional soil and geological data with machine learning, engineers can predict the seismic amplification effects at specific locations, improving site-specific hazard assessments.

Ground **Motion Models**: ML is used to predict ground motion characteristics such as peak ground acceleration (PGA) and spectral acceleration at various locations. Traditional ground motion prediction equations (GMPEs) can be enhanced or replaced by ML models like **Gaussian process regression** and **neural networks** that provide more accurate predictions by learning from vast datasets.

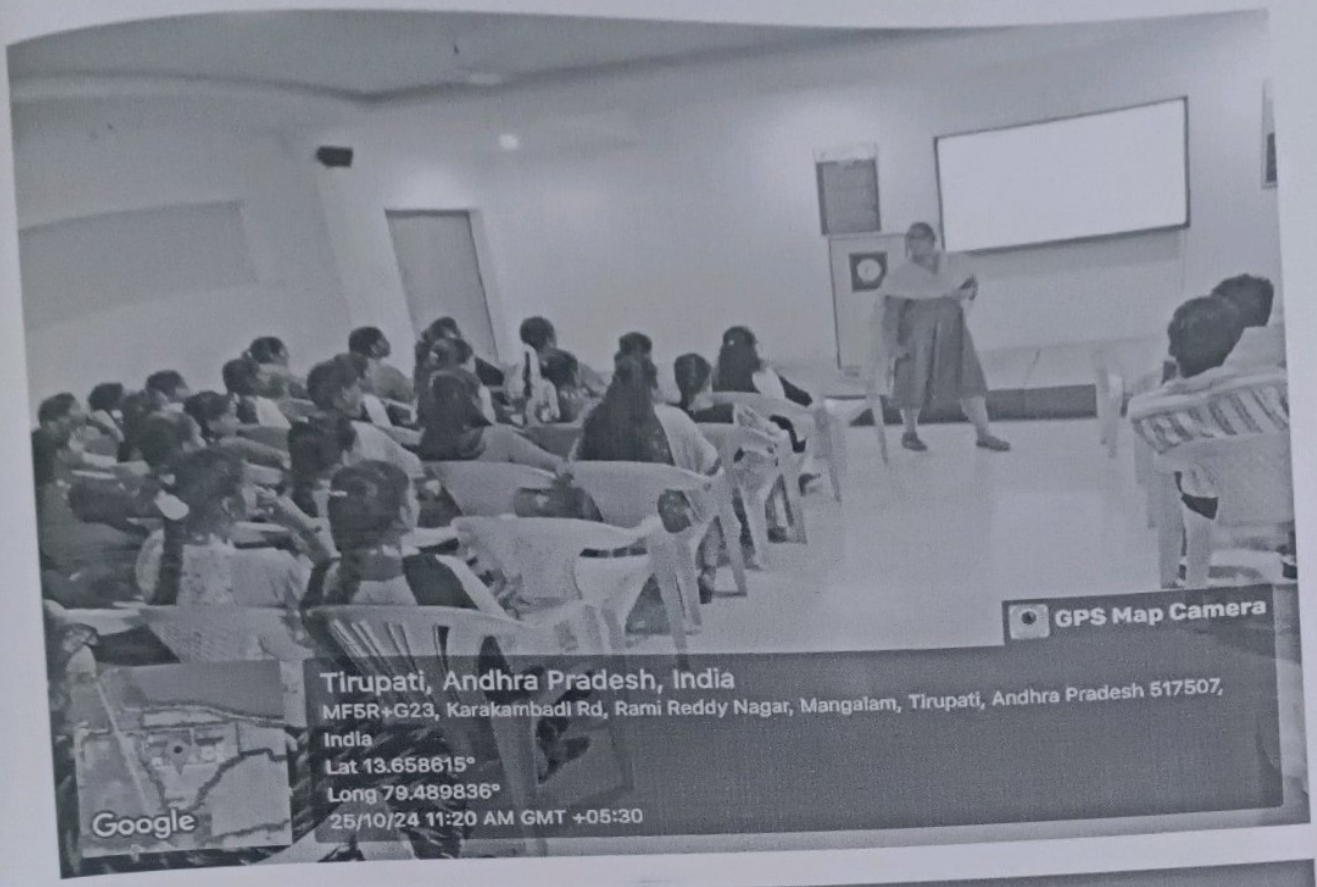
Site **Response Analysis**: Machine learning can analyze soil response to seismic waves, predicting site-specific ground motion parameters. This helps engineers design structures with improved resistance to local soil amplification effects.

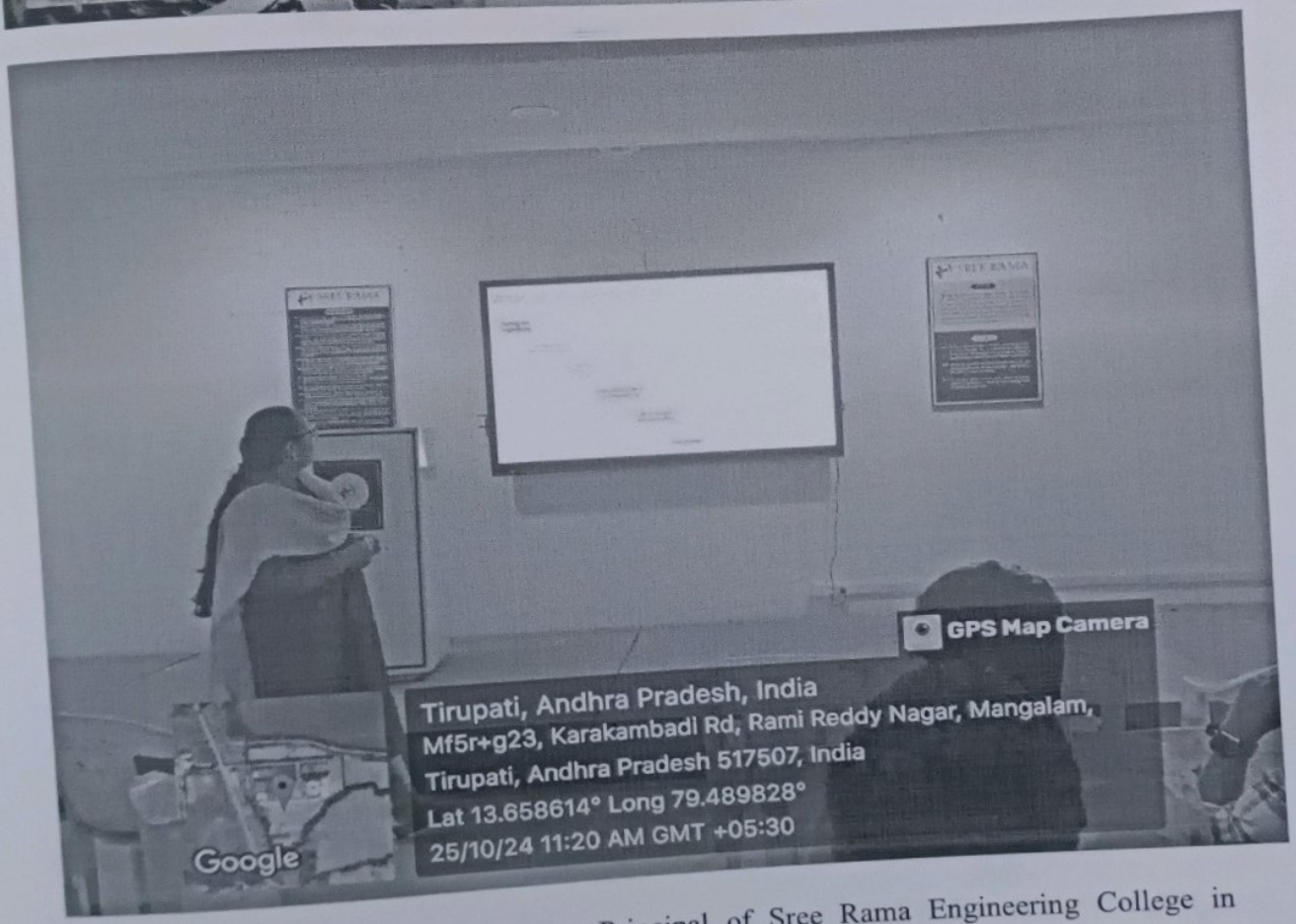
Optimizing **Structural Designs**: ML can assist in optimizing building and infrastructure designs to improve earthquake resilience. By analyzing simulation data, optimization algorithms like **genetic algorithms** and **deep reinforcement learning** can find design parameters that maximize structural performance under seismic loads.

Smart **Material Selection**: ML models can recommend the best materials based on their seismic performance, cost, and environmental factors. This helps in creating structures that can better withstand earthquakes.

Landslide **Susceptibility Mapping**: Earthquakes often trigger landslides, and ML can identify high-risk areas by analyzing topography, soil properties, vegetation cover, and historical landslide data. Techniques like **logistic regression**, **random forests**, and **gradient boosting** can generate maps highlighting landslide-prone areas.

Real-**Time Prediction During Earthquakes**: Combining seismic data with geotechnical data, ML models can predict landslide occurrences during an earthquake, providing real-time alerts for nearby communities.





Finally,**Prof. Jayachandra**, the Principal of Sree Rama Engineering College in Tirupati, expressed his appreciation to the guest speaker for accepting the invitation and establishing a conducive atmosphere for the event. He emphasised the speaker's accomplishments and expertise. The principal conveyed his gratitude to the speaker for

imparting their knowledge and experiences, and extended appreciation to both staff and students for their participation in the applause.

Dr.K. Jayachandra, Principal Felicitating Speaker

Mr. B. Balakrishna Bharath, who serves as both Assistant Professor and Head of the Department, conveyed gratitude to the invited speaker for their acceptance and valuable contribution to the event's welcoming ambiance.

The event convenor, Assistant Professor Mrs. **K Roop Sagar** from the Civil Engineering Department, expresses gratitude to the guest speaker, principal, and head of the department. She also conveyed thanks to the faculty members and students in attendance.

Convenor

HOD-CE

Head of the Department
Dept. of Civil Engineering
Sree Rama Engineering College
Pamidi Reddy Nagar, Karakambadi Road
TIRUPATI-517 507

25/10/24

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25/10/24

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ATTENDANCE SHEET

Guest Lecture on

"Machine Learning applications in Civil-Earthquake Engineering"

Date: -25/10/2024

Sl.No	Roll Number	Name of the Student	Attendance
1	244CA01001	BANDURU SANTHOSH	X
2	244CA01002	BELLAMKONDA LOKESH	X
3	244CA01003	BOGIREDDY RAKESH	X
4	244CA01004	BOPPA SAMUDRAM JAGADEESWAR RAO	X
5	244CA01005	BORRA VISHNU	X
6	244CA01006	CHAMANCHULA NAVEENBABU	X
7	244CA01007	DASAREDDY CHAITANYALAKSHMI	X
8	244CA01008	DESIREDDY CHANDRA SEKHAR REDDY	X
9	244CA01009	KONDETI SUPRIYA	AB
10	244CA01010	LAKKI REDDY RAKESH RAYUDU	X
11	244CA01011	MANGALA RAHUL	X
12	244CA01012	MAVILLA LEELAVATHI	X
13	244CA01013	MUDE BANU PRASAD NAIK	X
14	244CA01014	PALLIPATTU NARASIMHA	X
15	244CA01015	RAGURU TEJA PRASAD	X
16	244CA01016	SULEMAN AJMAL	X
17	244CA01017	SYED SAMEERA	X

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SRET/DCE/003/2024-25

Date: 04.11.2024.

DEPARTMENT OF CIVIL ENGINEERING

CIRCULAR

All B. Tech & M. Tech students of CE are hereby informed that there will be Expert lecture on **"Housing in Disaster prone areas"** on 05/11/2024, which is organized by the Department of Civil Engineering. In this context, all the students are instructed to attend the expert lecture without fail.

The Details of the Expert: -

Mrs.T. Greeshma,
Assistant Professor,
Department of Civil Engineering,
Sree Rama Engineering College,
Tirupati – 517507.

04/11/24.

HOD

Head of the Department
Dept. of Civil Engineering
Sree Rama Engineering College
Rami Reddy Nagar, Karakambadi Road
TIRUPATI-517507

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04/11/24

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Rami Reddy Nagar, Karakambadi road, Tirupati-517507

Date: 05th November 2024

A Report on
A One-day guest lecture on the topic
"Housing in Disaster Prone Areas"

The Civil Engineering Department hosted a guest lecture for undergraduate and postgraduate students from both the Civil Engineering department. The lecture, titled "**Housing in Disaster Prone Areas**", was delivered by Thota Greeshma, Assistant Professor in the Civil Engineering Department at Sree Rama Engineering College, Tirupati.

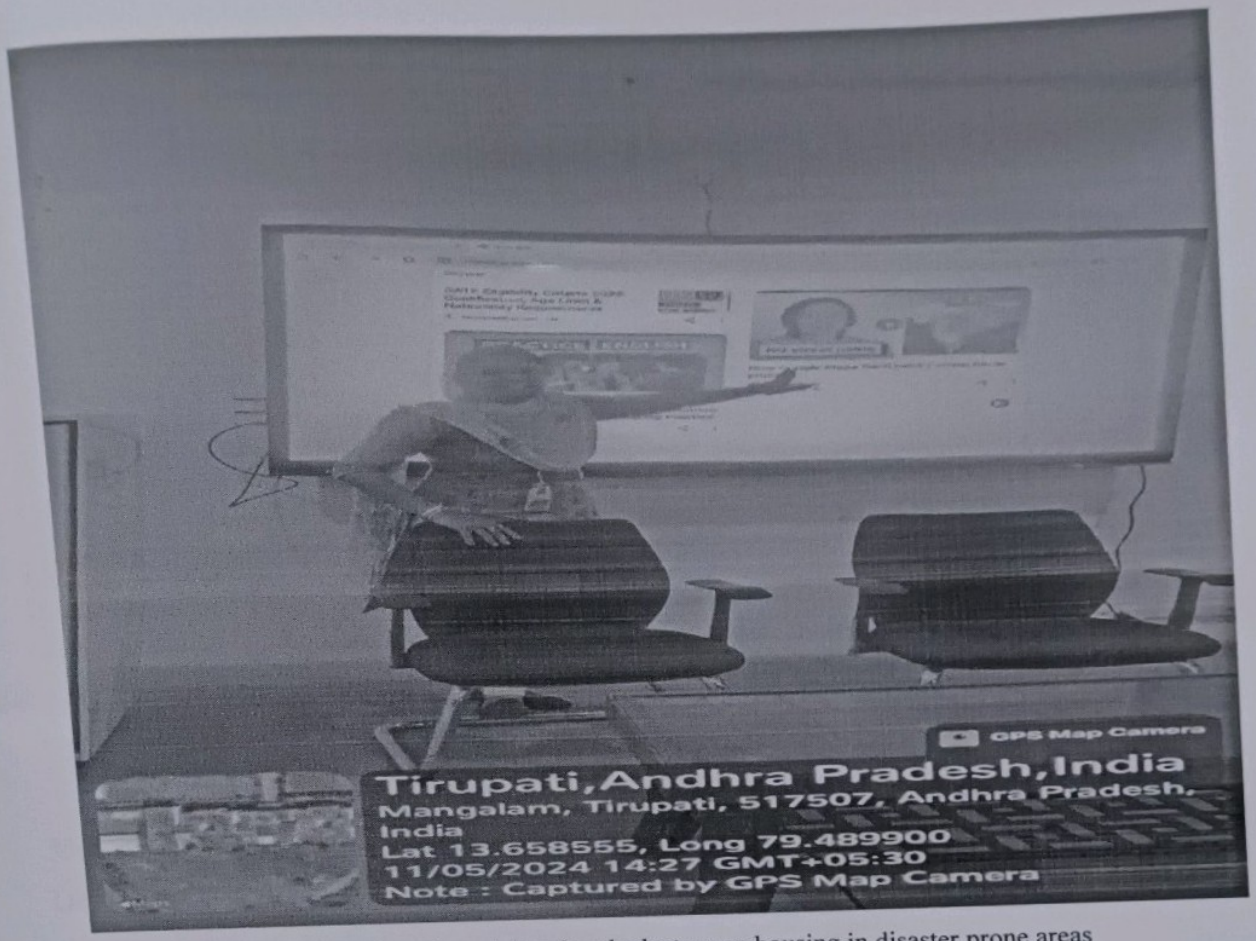
The purpose of this event was to gain knowledge on Housing in Disaster Prone Areas is to Over the years, especially in developing countries, are disproportionally vulnerable to natural hazards due to both biophysical and social vulnerability. When disaster occurs, most devastation seem to affect the housing of our country mainly due to poor quality of construction, non-engineered constructions executed by unskilled masons and lack of regulator frameworks, especially beyond the municipal boundaries.

The objectives of this guest lecture are:

1. To discuss the good construction practices, need to be followed to achieve safety from disasters.
2. To discuss the challenges faced in rural constructions in India.
3. To discuss some good traditional construction practices and methods to popularise the same among the communities.
4. To discuss the fire risk mitigation measures for the rural areas; and
5. To bring awareness for building resilience.

Mrs. Thota Greeshma, Convener of the webinar, thanked all the students and faculty members joined for the guest lecture and welcomed the participants. She said housing has become a very important component of our lives, so safety of our house is paramount and most important critical aspects of our survival. She further added that atleast in those areas where hazards are coming, we must make our housing so that it shall resist those hazards and does not convert into disasters. In various types of disasters including earthquake, landslides, cyclones, floods

ven tsunami, housing technology should be used as per different calamitic zones for our enefits to protect ourselves and to sustain those hazards. She also informed that certain areas ike Jammu and Kashmir, Uttarakhand, Himachal Pradesh, and Northeastern India including some parts of Bihar have already developed construction practice which are disaster safe as well.



Mrs Thota Greeshma delivering the lecture on housing in disaster prone areas

She further told India has the biggest housing programme and the government is committed to provide housing for all by starting of Pradhan Mantri Aawas Yojna in 2015, there were 11.2 million houses required to be built which is 1.12 crore in urban areas and about 30 million houses are required to be built in rural areas.

She also talked about the technology submission facilitates, adaption of modern effective green technology and building material for faster and quality construction of houses including earthquake and other disaster resistant technology and designs. She also mentioned IIT and NITs planning an architectural institute for developing technical solutions, and capacity building.

The constructions techniques like Kath-Kunni, mud, stone construction was addressed. Confined masonry wall concept was elaborated in her lectures which is important for safe housing especially in rural areas. She talked in detail about some safe engineering techniques like if a house is designed in accordance to NBC 2016, how it will be affected during

arthquake, how to ascertain if a hill slope will suffer a landslide, what is the acceptance equence of construction on hill slopes and how to know if the site is suitable for ruling the oundation of a building on a hill slope etc. At the end she described the technique of constructing confined masonry building and how it is seismic resistant and cost effective.

Students participated in the guest lecture

Mr. B. Balakrishna Bharath, who serves as both Assistant Professor and Head of the Department, conveyed gratitude to the speaker for the valuable contribution to the event.

Finally, the event convenor, Assistant Professor Mrs. Thota Greeshma from the Civil Engineering Department, of Sree Rama Engineering College expressed gratitude to the principal, and head of the department. She also conveyed thanks to the faculty members and students.

CONVENOR 5/11/24

HOD-CE
Head of the Department
Dept. of Civil Engineering
Sree Rama Engineering College
Rami Reddy Nagar, Karakambadi Road
TIRUPATI-517 507

PRINCIPAL

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SREE RAMA ENGINEERING COLLEGE
RAMIREDDY NAGAR
KARAKAMBADI ROAD, TIRUPATI-517507

25th October 2024,
Tirupati.

Letter of Appreciation

To
Dr. Yellapragada Meenakshi, Ph.D(IITM)
Assistant Professor,
Department of Civil Engineering,
SIETK-Puttur.

On behalf of the department of civil engineering, Sree Rama Engineering College, I would like to thank you for taking part as speaker in guest lecture program on **"Machine Learning applications in Civil-Earthquake Engineering"**, which is organized by department of civil engineering on 25/10/2024. This guest lecture is Successful because of dedicated academics such as you. It is honor for the department of civil engineering, Sree Rama Engineering College to have subject expert like you.

Thanks and Regards.

PRINCIPAL 25/10/24
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SREE RAMA ENGINEERING COLLEGE
Date 25.10.2024
TIRUPATI