LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING
MYLAVARAM
TRUTH ALWAYS TRIUMPHS
HARD WORK PAYS

Civil Engineering

Magazine

Jan-June 2025

Tech and Trendz

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DEPARTMENTAL EVENTS

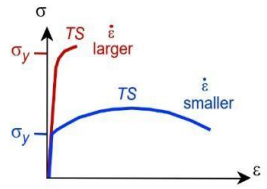
REPORT ON ONLINE A FIVE DAY FDP ON "Potential Research Trends in Civil Engineering Domains"

Event Type	Online Faculty Development Program
Date / Duration	24.03.2025 to 28.03.2025
Name of the Coordinator	Sri J Rangaiah, Associate Professor Sri B Rama Krishna, Sr Assistant Professor
Target Audience	Faculty members of Civil, Research scholars and UG and PG students
Total no of Participants	116 (Internal-35, External-81)
Objective of the event	The main objectives of this FDP are to • Exposure to the latest trends of Structural health monitoring using IOT & ML techniques • Use of Nanomaterials for repairing works in SCM • Recognize Challenges in Project management and trends • Enhancement of circular economy model in industrial waste • Advances in repair & retrofitting in UHPC • Green technologies in materials

Outcome of event	Faculty will be familiarized • Applications of IOT & ML in civil engineering • Importance of nanomaterials and green technology materials • Project management and advanced repair techniques • Circular economy model in industrial waste
Feedback / Suggestions	Received positive feedback from participants regarding event conducted and about organizing the event

Considering Loading Rate Effect

- Increased loading rate...
  -- increases σ_y and *TS*
  -- decreases %*EL*
- Why? An increased rate allows less time for dislocations to move past obstacles.



LBRCE

5 days online Faculty Development Program (FDP) on
"Potential Research Trends in Civil Engineering Domains"
March 24-28, 2025

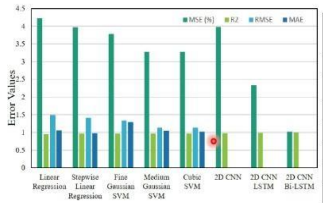
Technical Lecture on

Advanced Computer Vision Technique for Structural Health Monitoring

T. Jothi Saravanan, PhD
School of Infrastructure, IIT Bhubaneswar
Mail: tjs@iitbbs.ac.in

RESULTS

Model performance comparison between different ML and DL models



Model Type	RMSE (%)	MSE (%)	R^2 (Validation)	MAE (%)
Linear Regression	1.49	4.23	0.957	1.06
Stepwise Linear Regression	1.41	3.97	0.961	0.98
Cubic SVM	1.13	3.27	0.967	1.02
Fine Gaussian SVM	1.34	3.78	0.962	1.29
Medium Gaussian SVM	1.13	3.27	0.965	1.04
2D CNN	-	3.98	0.981	-
2D CNN LSTM	-	2.33	0.986	-
2D CNN Bi-LSTM	-	1.02	0.996	-

Self Compacting Mortars with inclusion of Nano materials:

An innovative Repair material for Historical Structures

Prof. S Venkateswara Rao
Department of Civil Engineering
NIT Warangal

ALUMINI INTERACTION

EventType : Student Interaction

Date : 08-02-2025

Venue : classroom 3F09

Resource Person(s) : Mr. D Siva Krishna

Name of Coordinators: Eeshwar Ram J

Target Audience : B.Tech. VI Sem Students Total no of Participants: 49

Our Alumni, Mr. D Siva Krishna (18765A0105), working in SSC Railway as a Junior Engineer, interacted with students on 08-02-2025. He discussed with the third year students regarding Core Career Opportunities and Placement preparation, opportunities in core jobs in govt sector and higher education importance.

My sincere thanks to Mr.D Siva Krishna for attending this interaction. Assoc Porf J .Rangaiah and Alumni Incharge Mr.Eeshwar Ram J are also participated in this interaction. Total of 54 students are participated in this interaction.


SRUJANA

EventType : Student Interaction

Date : 13-03-2025

Venue : classroom 3F09

Resource Person(s) : Mr. M Raj Kumar

Name of Coordinators: Eeshwar Ram J

Target Audience : B.Tech. IV Sem Students Total no of Participants:

54

Our Alumni, Mr. M Raj Kumar (12761A0136), working in BMD Group as a Project Manager Austrlia , interacted with students on 13-03-2025. He discussed with the first year students regarding Career Guidance and Placement preparation, opportunities in core companines and higher education importance.

My sincere thanks to Mr. Raj Kumar for attending this interaction. Assoc Porf J .Rangaiah and Alumni Incharge Mr.Eeshwar Ram J are also participated in this interaction. Total of 54 students are participated in this interaction.


RJ. Mylavaram Andhra Pradesh 03/13/2025, 15:17

PLACEMENTS

S.NO	NAME OF THE STUDENT	ROLL. NO	COMPANY NAME	PACKAGE
1.	CH NARENDRA	21761A0106	ROADWAYS SOLUTIONS INDIA INFRA LTD (RSIIL)	2.1 LAKH
2.	PAVAN KUMAR Y	21761A0144	ROADWAYS SOLUTIONS INDIA INFRA LTD (RSIIL)	2.1 LAKH
3.	SK MASOOD	21761A0139	ROADWAYS SOLUTIONS INDIA INFRA LTD (RSIIL)	2.1 LAKH
4.	Y MOHAN KRISHNA	22765A0125	ROADWAYS SOLUTIONS INDIA INFRA LTD (RSIIL)	2.1 LAKH
5.	P NITHIN	22765A0120	ROADWAYS SOLUTIONS INDIA INFRA LTD (RSIIL)	2.1 LAKH
6.	P RAVI TEJA	22765A0119	ROADWAYS SOLUTIONS INDIA INFRA LTD (RSIIL)	2.1 LAKH
7.	S SYAM SUNDAR RAO	21761A0138	ROADWAYS SOLUTIONS INDIA INFRA LTD (RSIIL)	2.1 LAKH
8.	M PAVAN GOPI NIADU	21761A0125	ROADWAYS SOLUTIONS INDIA INFRA LTD (RSIIL)	2.1 LAKH
9.	TONNANGI SAI	21761A0142	ROADWAYS SOLUTIONS INDIA INFRA LTD (RSIIL)	2.1 LAKH
10.	HANU BABU K	22765A0110	VAMSIRAM BUILDERS	1.80LAKH
11.	B YUVA RAJ KOWSHIK	22765A0104	IMEG ENGINEERING PVT LTD	4.0 LAKH
12.	A SIVA REDDY	22765A0103	CADSYS (INDIA) LTD	3.3 LAKH
13.	S V VENKATA SANTHOSH	22765A0122	ANUSHA PROJECTS PVT LTD	2.1 LAKH
14.	T SWATHI	22765A0123	SUTHERLAND GLOBAL SERVICES	1.80LAKH
15.	KOGANTI KARTHIK SAI	22765A0109	CAMELQ SOFTWARE SOLUTIONS PVT.LTD	4.20LAKH

16.	T SWATHI	22765A0123	KK ENTERPRISES	1.98LAKH
17.	BODDU KUSUMA	22765A0105	KK ENTERPRISES	1.98LAKH
18.	K PRASANNA LAKSHMI	21761A0118	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
19.	KUDAPU TEJASWINI	22765A0111	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
20.	DULAM JAHNAVI	21761A0111	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
21.	T SWATHI	22765A0123	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
22.	PVEERA KUMAR	21761A0134	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
23.	MEDIDHI HARISH KUMAR	22765A0115	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
24.	BURUGU VAMSI	22765A0119	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
25.	CHALLA NARENDRA	21761A0106	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
26.	S.V.VENKATA SANTHOSH	22765A0122	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
27.	KOLUSU HANU BABU	22765A0110	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
28.	P NIKHIL PRABHAT	22765A0124	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
29.	PALAVALASA HARISH	21761A0130	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
30.	KUNCHALA TARUN	22765A0112	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
31.	CH NARAYANA RAO	22765A0107	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
32.	B YUVA SAI RAJA KOWSHIK	22765A0104	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
33.	ALLURI SAI MANIKANTA	22765A0101	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH
34.	AVULA SIVA REDDY	22765A0103	DELPHI-TVS TECHNOLOGIES LTD	1.80LAKH

FAMOUS ENGINEER

Anumolu Ramakrishna

Anumolu Ramakrishna (20 December 1939 – 20 August 2013) was an Indian civil and structural engineer, corporate executive and the deputy managing director of Larsen & Toubro Construction,[1] the largest construction company in India as per 2013 statistics.[2] He was credited with the introduction of system formwork[3] and precast and prestressed concrete technologies[4] in Indian construction industry, procedures which helped increase productivity,[5] and was a co-founder of the India chapter of *FSL - Global Forum on Structural Longevity*.[6] The Government of India awarded him the third highest civilian honour of the Padma Bhushan, posthumously in 2014, for his contributions to science and technology.[7

Born on 20 December 1939[8] in Punadipadu, a small village near Vijayawada in Krishna district, in the south Indian state of Andhra Pradesh,[*citation needed*] Ramakrishna graduated in Civil Engineering from Andhra University and secured a master's degree (MSc) in Structural Engineering from the College of Engineering, Guindy[9] of Madras University.[10] His career started at the construction division of Larsen & Toubro, then known as *Engineering Construction Corporation Limited*, in 1962 but continued his education by undergoing advanced training in structural engineering in the former German Democratic Republic in 1966, after obtaining a sponsorship from the Government of India. He served L&T for 42 years during which time, he held various positions such as that of a member of the Board of Directors (1992), President (Operations) of ECC Construction Division (1995) and the Deputy Managing Director (2000). By the time he retired from L&T service in 2004, the revenue of the construction division reportedly grew from ₹4.5 billion to over ₹55 billion (2004), registering a 40 percent growth in volume of business.[3]

Ramakrishna, who oversaw the construction of several major projects in India such as cement and steel plants, refineries and petrochemical complexes, seaports, airports and nuclear power plants, served as a director

board member of many corporate entities; Ramco Industries, TAJGVK Hotels & Resorts, Ramco Cements, Andhra Petrochemicals, Andhra Sugars, Jaipur-Kishangarh Expressway, Mumbai International Airport Limited, UltraTech Cement and Brigade Group are some of the notable ones among them.[11] Among the honors he received, ICI-Fosroc Award for Outstanding Concrete Technologist (1993), Institution of Engineers (India) Prestressed Concrete Design Award (1995), Eminent Engineering Personality award (1998) and World Federation of Engineering Organizations Hassib Sabbagh Award (2007) were for technological excellence and Outstanding Contribution to Construction Industry Award of Builders' Association of India (1993), Davidson Frame Award (1997), Rotary International Outstanding efforts in Business Ethics award (2000) and Rotary International For the Sake of Honour' Award (2001) were for excellence in corporate management.[10] His alma mater, Andhra University, conferred the honoris causa degree of Doctor of Science on him in 1997 and he received another honorary degree, Doctor of Philosophy, from Jawaharlal Nehru Technological University in 2004.[10]

FAMOUS CONSTRUCTION

Central Vista Redevelopment Project

Central Vista Redevelopment Project is the ongoing redevelopment of the Central Vista, India's central administrative area located near Raisina Hill, New Delhi. Designed and constructed by Edwin Lutyens and Herbert Baker during British rule as the seat of the imperial government, the area was retained by the Government of India following independence. Scheduled for completion between 2020 and 2026, the project seeks to transform the 3 km (1.9 mi) stretch of Rajpath spanning from Rashtrapati Bhavan to India Gate into a modern, pedestrian-friendly boulevard.

Key components include the construction of a new Parliament building with increased seating capacity, a new Central Secretariat to house all ministries, and new official residences and offices for the Prime Minister and Vice President near the North and South Blocks. he existing North and South Blocks will be converted into publicly accessible museums, along with the adaptive reuse of other historic structures.[1] The redevelopment project is estimated to cost around ₹13,450 crore (approximately ₹160 billion or US$1.9 billion as of 2023), with expenses spread over a four-year period.

Following the coronation of King George V at the Delhi Durbar in 1911 and his proclamation to shift the imperial capital from Calcutta to Delhi, the Central Vista was designed by architects Edwin Lutyens and Herbert Baker. The Parliament building alone took six years to construct, from laying the foundation stone on 12 February 1921 to the inauguration by then Viceroy Lord Irwin on 18 January 1927.[6] After independence in 1947, it became the seat of the government of the new republic. The parliament campus was declared a heritage precinct in the 1962 Master plan of Delhi.

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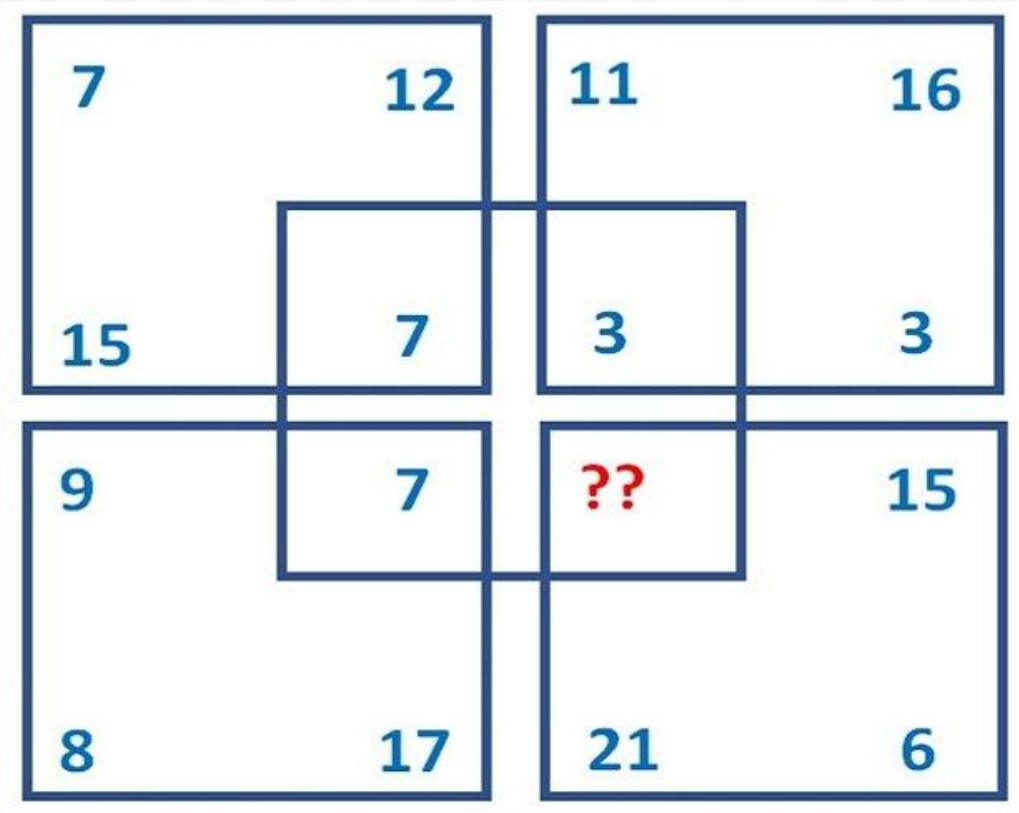
The Central Vista Redevelopment Project was launched in 2019.[9] The project includes converting North and South Blocks into public museums, creating an ensemble of new secretariat buildings to house all ministries, relocating the Vice President and the Prime Minister's offices and residences near the North and South Blocks, and revamping the 3 km (1.9 mi) long Rajpath between Rashtrapati Bhavan and India Gate.[10] A new parliament building with increased seating capacity will be built beside the older one as India aims to expand its parliamentary membership in 2026.

TRICK ZONE

Can you solve this riddle?



ARTS

ART BY
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