Civil Engineering Magazine

Jan-June 2024

Tech and Trendz

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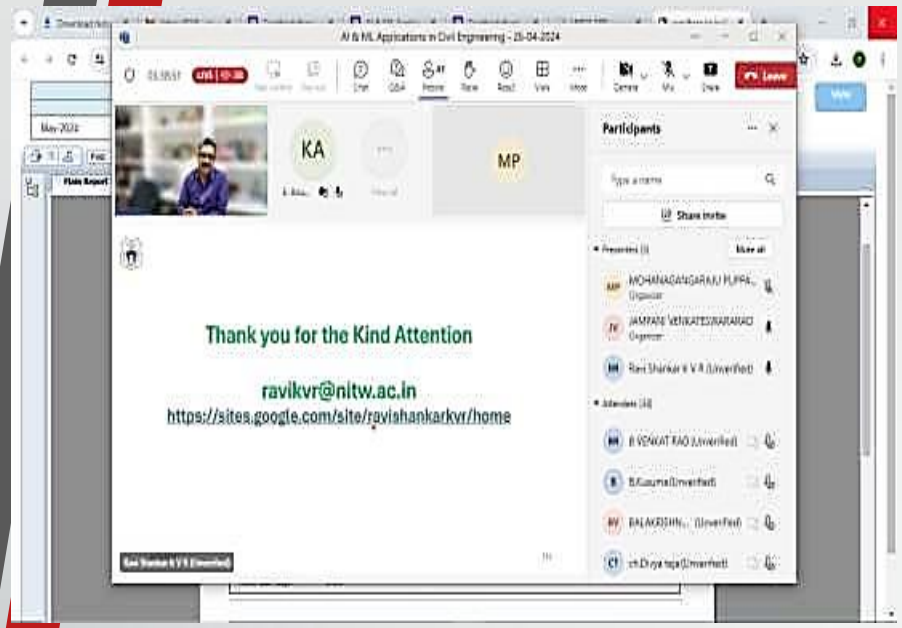
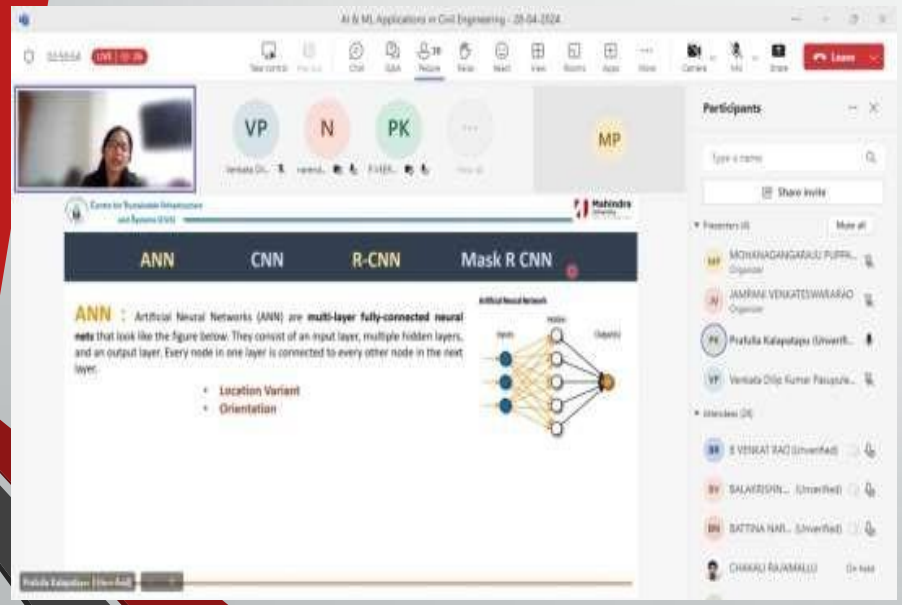
DEPARTMENTAL EVENTS

AL & ML Applications in Civil Engineering”

Event Type	Online Faculty Development Program
Date / Duration	26.06.2024 to 01.07.2024
Name of the Coordinator	Sri K. Harish Kumar, Sr. Assistant Professor Sri P. Mohana Gangaraju, Assistant Professor
Target Audience	Faculty members of Civil, Research scholars and M.Tech students
Total no of Participants	51 (Internal-10, External-41)
Objective of the event	The main objectives of this FDP are to • An exposure to the tools of AI & ML with reference to applications in Civil Engineering. • An exposure to the Intelligent and energy efficient buildings.
Outcome of event	• Faculty will be familiarized with the Applications of AI/ ML in civil engineering, which will in turn disseminate to the students by introducing suitable courses and practical. • Technical skill sets of faculties will be enhanced in these interdisciplinary areas, which will allow them for their increased and effective contribution in research, consultancy and product development.
Feedback / Suggestions	Received positive feedback from participants regarding event conducted and about organizing the event





LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE, ME, CE &ASE)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.REDDY NAGAR, MYLAVARAM, KRISHNA DIST., A.P.-521 230.

DEPARTMENT OF CIVIL ENGINEERING

Certificate of Participation

This is to certify that

Kona Harish Kumar

Sr. Assistant Professor, Lakireddy Bali Reddy College of Engineering has participated in **Online Five days FDP on "*AI & ML Applications in Civil Engineering*"**, organized by **Department of Civil Engineering**, during 26-06-2024 to 01-07-2024.

Certificate Number: JMDEYC-CE000023

Mr. K. Harish Kumar (Coordinator)

Dr. J. Venkateswara Rao (Convener & HOD-CIVIL)

Dr. K. Appa Rao (Principal)

Made for free with Certify'em

Report

The Department of Civil Engineering, Lakireddy Bali Reddy College of Engineering (A), Mylavaram, organized a Five day online Faculty Development Program during 26th June to 01st July, 2024 on "**AL & ML Applications in Civil Engineering**" through Microsoft Teams. The FDP was inaugurated on 26th June, 2024 by the Principal Dr Appa Rao garu and Head & Professor Dr. J. Venkateswara Rao garu.

The participants gained knowledge about Artificial Intelligence (AI), Machine learning (ML) and their applications, which would aid in the process of problem-solving in Civil Engineering.

World Water Day -2024 Celebrations Held at Lakireddy Bali Reddy College of Engineering, Mylavaram on 22nd March, 2024

Event Type	A Guest lecture and Drawing competition - On the occasion of World Water day
Date/Duration	22.03.2024
Name of the Coordinator	Sri K. Harish Kumar, Sr. Assistant Professor, Dr V. Ramakrishna, Professor
Target Audience	B.Tech 1st and 2nd year Civil students
Total no of Participants	Guest lecture – 80, Drawing Competition - 20
Objective of the event	To create awareness to the 1st and 2nd year B. Tech students about the importance of water, its usage, recycling and conservation
Outcome of event	Audiences were apprised about availability of water, its quality, usage and tips for conservation in day-to-day life.
Feedback /Suggestions	Received positive feedback from participants regarding events conducted and about organizing the event

Dr J. V. Rao, HOD-CE addressing the gathering and the dignitaries on the dais

Chief Guest and Key note speaker Sri PLN Kartic presenting the theme “Water for Peace”

Felicitation to the Chief Guest Sri P.L.N. Kartic

Address by the Principal, Dr K. Appa Rao

Presentation of Memento the Hony. Secretary, IE(I) APSC Prof (Dr) M.L.S. Deva Kumar

Section of the gathering

Prize distribution to winner of drawing competition

Prize distribution to winner of drawing competition

ACHIEVEMENTS

KABADDI A.Y 2023-2024

S.No	Name Of The Students	Reg No	Name Of The Sports	Venue	Secured Position
1.	CHANDRA MOULI	23765A0103	KABADDI	LBRCE	2nd
2.	R. RAJU	20761A0157	KABADDI	LBRCE	2nd
3.	S. HANUMA NAIK	22761A0133	KABADDI	LBRCE	2nd
4.	P. RAVI TEJA	22765A0119	KABADDI	LBRCE	2nd
5.	J. THARUN	21761A0113	KABADDI	LBRCE	2nd
6.	CH. VARDHAN	20761A0111	KABADDI	LBRCE	2nd
7.	G. AJAY	20761A0116	KABADDI	LBRCE	2nd
8.	G. KOTI	20761A0117	KABADDI	LBRCE	2nd
9.	M. BHANU	20761A0132	KABADDI	LBRCE	2nd
10.	D. VAMSI	20761A0105	KABADDI	LBRCE	2nd

Kho-kho

S.No	Name of the Students	Reg No	Name Of The Sports	Venue	Secured Position
1.	T. SRINIVAS REDDY	21761A0141	KHO-KHO	Lbrce	2nd
2.	S. HANUMA NAIK	22761A0133	KHO-KHO	Lbrce	2nd
3.	R. RAJU	20761A0157	KHO-KHO	Lbrce	2nd
4.	R. YEONESH	23761A0128	KHO-KHO	Lbrce	2nd
5.	P. NARENDRA	23761A0123	KHO-KHO	Lbrce	2nd
6.	P. HARI KRISHNA REDDY	23761A0129	KHO-KHO	Lbrce	2nd
7.	CH. CHANDRA MOULI	23765A0103	KHO-KHO	Lbrce	2nd
8.	K. SRIDHAR	23765A0112	KHO-KHO	Lbrce	2nd
9.	V. NAVEEN	20761A0156	KHO-KHO	Lbrce	2nd
10.	G. LEELADHAR NAIDU	23765A0109	KHO-KHO	Lbrce	2nd
11.	SK. MATHIN	23761A0130	KHO-KHO	Lbrce	2nd
12.	SK. MUSTAFA	23761A0131	KHO-KHO	Lbrce	2nd

PLACEMENTS

S.NO.	NAME OF THE STUDENT	ROLL NUMBER	DEPT.	YEAR OF GRADUATION	ON CAMPUS /OFF CAMPUS	NAME OF THE EMPLOYER
1.	Abbadasari Praveen	20761A0101	CIVIL	2024	ON CAMPUS	RT Associates
2.	Chandolu Ananth Kumar	20761A0108	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
3.	Chilumuru Vardhan	20761A0111	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
4.	Gala koteswara rao	20761A0114	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
5.	Ajay reddy Gowrasani	20761A0116	CIVIL	2024	ON CAMPUS	Milekal Engineering Pvt.Ltd
6.	Rahul Karatapu	20761A0123	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
7.	K.B.Sai Raghava Varma	20761A0124	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
8.	Konda Venkata Sanjay	20761A0125	CIVIL	2024	ON CAMPUS	RT Associates

PLACEMENTS

S.NO.	NAME OF THE STUDENT	ROLL NUMBER	DEPT.	YEAR OF GRADUATION	ON CAMPUS /OFF CAMPUS	NAME OF THE EMPLOYER
9.	Kumbha Mohan Krishna	20761A0127	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
10.	Lanki Jintendra	20761A0129	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
11.	Matti Bhanu Prakash	20761A0132	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
12.	Nagaboina Manikanta	20761A0134	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
13.	Shaik Shab John	20761A0146	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
14.	Tirumalasetti Siva Prasad	20761A0153	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
15.	Veeradasu Ranta Raju	20761A0157	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
16.	Bharat Srinivas Puthi	21765A0108	CIVIL	2024	ON CAMPUS	Milekal Engineering Pvt.Ltd
17	Shaik Kabir	21765A0109	CIVIL	2024	ON CAMPUS	IRP Infra Tech Pvt.Ltd
18	Sai keerthan	20761A0122	CIVIL	2024	ON CAMPUS	Eclat Engineering Consultants

PLACEMENTS

S.NO.	NAME OF THE STUDENT	ROLL NUMBER	DEPT.	YEAR OF GRADUATION	ON CAMPUS /OFF CAMPUS	NAME OF THE EMPLOYER
19	Bharat	21765A0108	CIVIL	2024	ON CAMPUS	Eclat Engineering Consultants
20	Nalamala Pitchaiah	21765A0107	CIVIL	2024	ON CAMPUS	Eclat Engineering Consultants
21	Kabir Shaik	21765A0109	CIVIL	2024	ON CAMPUS	Eclat Engineering Consultants
22	Vardhan	20761A0111	CIVIL	2024	ON CAMPUS	Eclat Engineering Consultants
23	Yoga Bhavana	20761A0130	CIVIL	2024	ON CAMPUS	Eclat Engineering Consultants
24	Bhanu Kiran Kumar	20761A0154	CIVIL	2024	ON CAMPUS	Eclat Engineering Consultants
25	Sravani	20761A0136	CIVIL	2024	ON CAMPUS	Eclat Engineering Consultants
26	R.S.Raghav	20761A0112	CIVIL	2024	ON CAMPUS	Eclat Engineering Consultants
27	Narendra Gunji	20765A0102	CIVIL	2024	ON CAMPUS	Eclat Engineering Consultants

FAMOUS ENGINEER

Shakuntala Bhagat

Shakuntala Bhagat FIE (*née* **Joshi** 6 February 1933 – 14 October 2012), was the first woman civil engineer in India

Shakuntala Joshi was the daughter of bridge engineer S. B. Joshi (1906–1991).[*citation needed*]
In 1953, she became the first woman to earn a civil engineering degree at Veermata Jijabai Technological Institute in Mumbai. She earned a master's degree in civil and structural engineering at the University of Pennsylvania

Shakuntala Joshi married fellow civil engineer Anirudha Shivprasad Bhagat. She died in 2012, aged 79

Bhagat was assistant professor of civil engineering and head of the Heavy Structures Laboratory at the Indian Institute of Technology in Mumbai for much of the 1960s. In 1970, she and her husband founded their own firm, Bhagat Engineering; they also founded Quadricon, a bridge construction firm specializing in a patented prefabricated modular design.[3][4] She worked on design and construction of hundreds of bridges around the world, including projects in the United States, Germany, and the United Kingdom. She worked on concrete research for the Cement and Concrete Association of London

Bhagat was a member of the Indian Road Congress and a fellow of India's Institute of Engineers. In 1972, the Bhagats received an award from the Invention Promotion Board, for their Unishear connectors. In 1993, she was recognized as the Woman Engineer of the Year

FAMOUS CONSTRUCTION

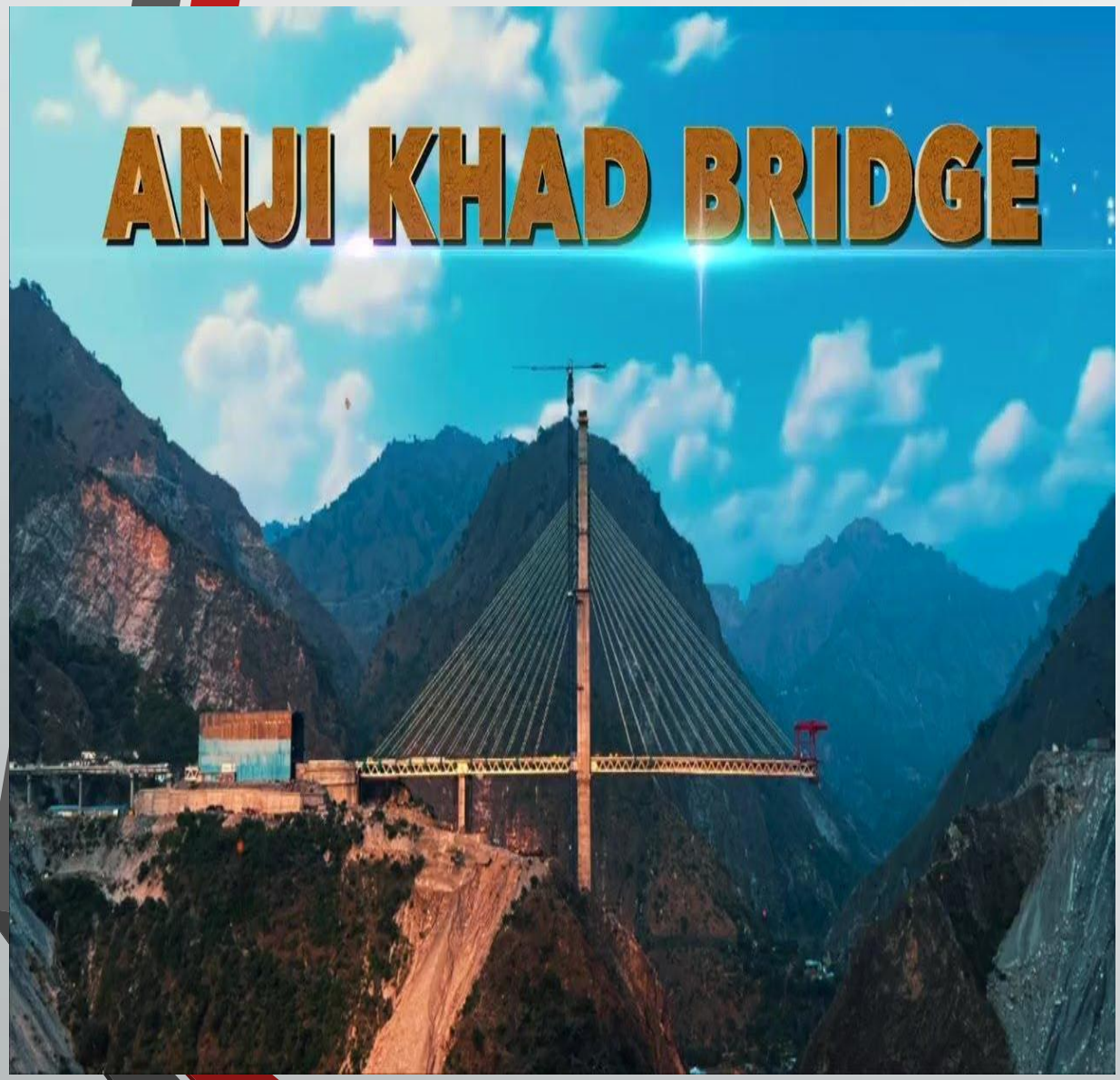
Anji Khad Bridge

The **Anji Khad bridge** is a railway bridge over the Anji River, a tributary of Chenab River, in the Indian union territory of Jammu and Kashmir. The bridge spans a length of 725.5 m (2,380 ft) with the 473.25 m (1,552.7 ft) long cable stayed bridge forming the main segment across the river gorge. With a height of 331 m (1,086 ft) from the river bed, it is the second-highest railway bridge in India, after the Chenab Rail Bridge, and India's first cable-stayed railway bridge.[1] It is situated between Katra and Reasi stations on the Jammu–Baramulla line.

The cable-stayed bridge features an asymmetrical design with 96 steel cables anchored to a single 193 m (633 ft) high pylon. The bridge was constructed by Hindustan Construction Company. The construction began in 2017 and was completed in 2023. Trial runs were done in 2024, and the bridge was opened for regular traffic on 6 June 2025.

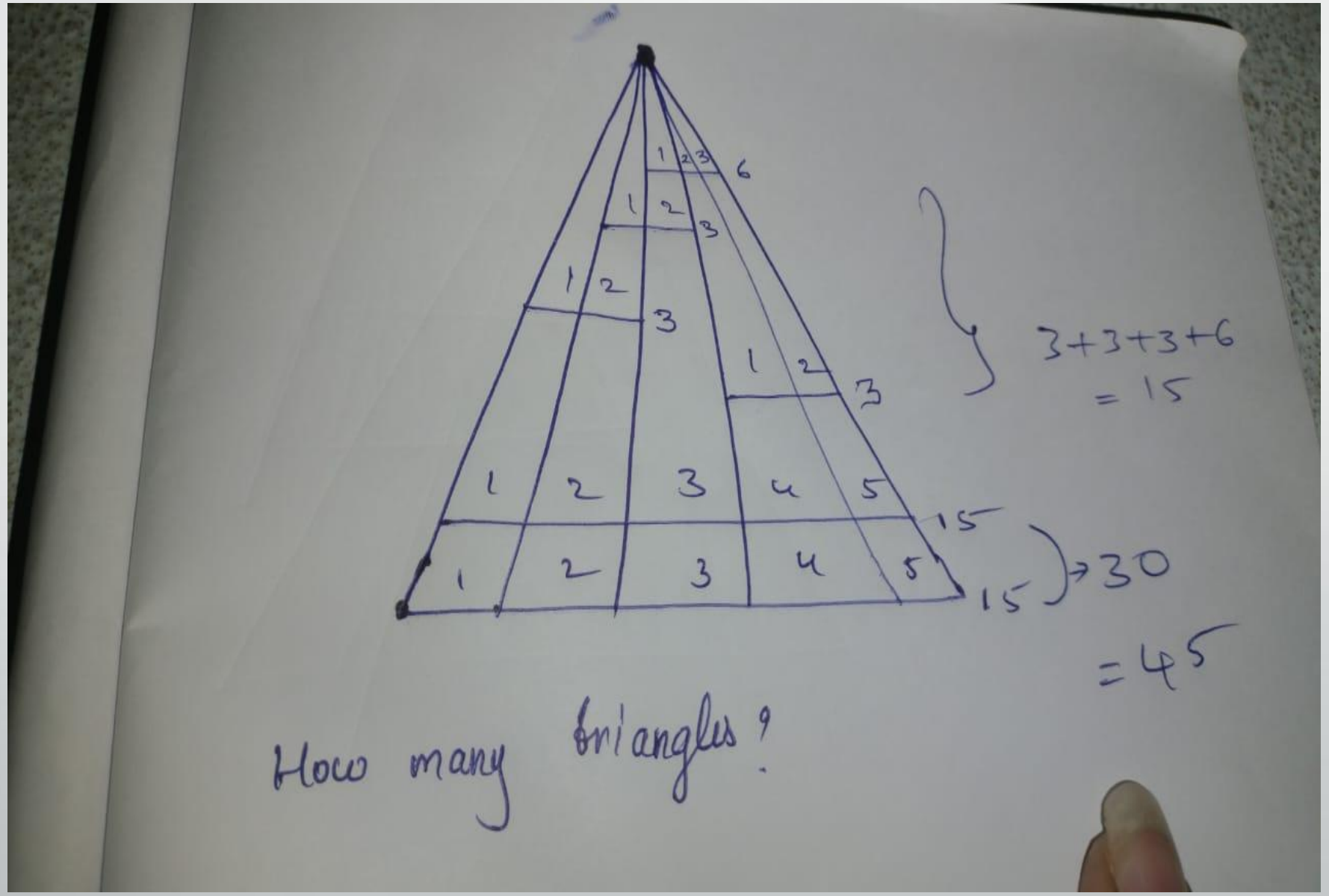
In the late 1970s, the Government of India planned to establish a railway line to connect Jammu with the Kashmir Valley. The line would connect Kashmir with the rest of the Indian railway network and aid in the economic activity of the region.[2] It would also serve as a strategic link to the Kashmir region throughout the year as the road is often cut off by snowfall during winters.[3] Though the foundation stone for the project was laid in 1983, construction started only when the funds were allocated only in the mid-1990s.[4][5][6] The Jammu–Udhampur section was opened in April 2005.[5][7][8] Subsequently, a railway line was established between Baramulla and Banihal in Kashmir in phases from 2008 to 2013, and the planned Jammu-Baramulla line would extend beyond Srinagar to connect to the new line.[4][9] The section between Udhampur and Katra was opened for traffic in July 2014.

Meanwhile, a survey was conducted in 1997 to study the feasibility for extending the railway line from Udhampur to Srinagar in the valley.[5][6] The line would have to pass through the Pir Panjal range of the Himalayas,[4] which necessitated multiple tunnels and bridges



The line between Katra and Srinagar necessitated crossing of deep gorges formed by the Chenab River and its tributaries. The Anji Khad Bridge was proposed over the Anji river, about 23 km north of Katra, towards and Reasi.[11][12] The bridge was initially proposed as an arch bridge with a total length of 473 m (1,552 ft), a main arch span of 265 m (869 ft), and a deck height of 189 m (620 ft). However, an Indian Railways committee recommended against the design citing the unstable geology of the location and the steepness of the gorge.[13] In October 2016, the Indian Railways decided to proceed with a cable-stayed bridge

TRICK ZONE


1 2 3 6
1 2 3
1 2 3
1 2 3
1 2 3 4 5 15
1 2 3 4 5 15
3+3+3+6
= 15
→30
= 45
How many triangles?

ARTS

ART BY
P.NARENDRA, 23761A0123