

EVENT: 'TECHNICAL TALK ON "REINFORCED BUT VULNERABLE: SURVEYING GEOTECHNICAL FAILURES ALONG NH-66'

ABOUT THE EVENT

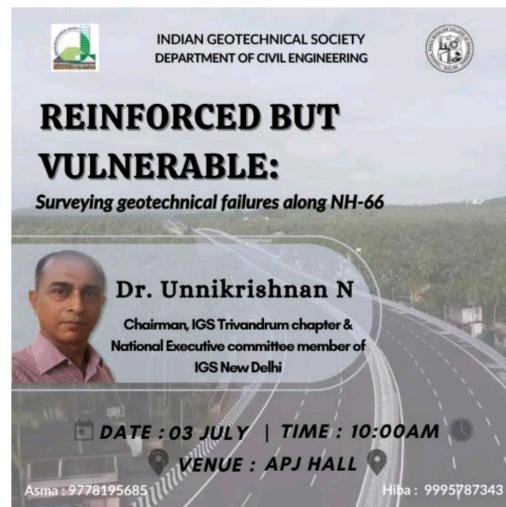
A technical talk was organized at APJ Hall of the Department of Civil Engineering, TKM College of Engineering on 3rd July 2025. The session titled "**Reinforced but Vulnerable: Surveying Geotechnical Failures along NH-66**" was delivered by **Dr. Unnikrishnan N**, Professor and Head (Retd.), Department of Civil Engineering, College of Engineering Trivandrum; Chairman, IGS Thiruvananthapuram Chapter; and Member, National Executive Committee, IGS. The talk drew an audience of **120 students**, comprising mainly of undergraduate students and department faculties.

The event commenced with a warm **welcome address by Dr. Adarsh S**, Head of the Department of Civil Engineering, TKMCE. This was followed by a brief **report on the activities of the IGS Students Chapter for the academic year 2024–25**, along with the **formal inauguration of the new Executive Committee for 2025–26**, presented by **Mr. Muraleekrishnan B**, Student Head (2024–25) of the Chapter. The session witnessed the esteemed presence of **Dr. Sajeeb R**, Former Principal of TKMCE, whose presence added significance to the event.

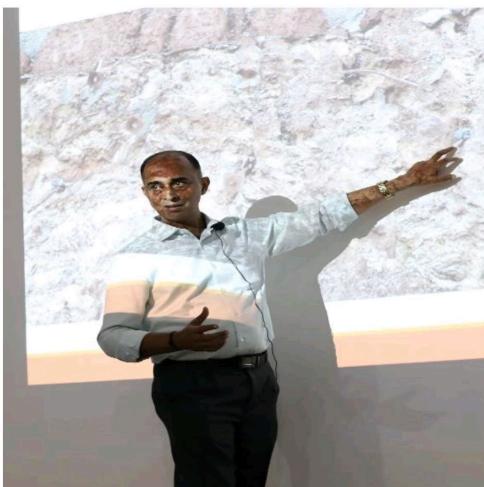
The keynote talk by Dr. Unnikrishnan N focused on **case studies of geotechnical failures along NH-66**, specifically addressing failure-prone areas such as **paddy fields, bridge approaches, and embankments over soft soils**. He highlighted key reasons for these failures, including **lack of proper soil investigation, high pore water pressures, and inadequate drainage systems in retaining structures**. Through engaging visuals and **videos of actual failures**, he demonstrated how such issues could be mitigated using solutions like **Mechanically Stabilized Earth (MSE) walls, soil nailing techniques**, and the use of **reinforced soil structures**, which, as he emphasized, often provide greater long-term stability than conventional reinforced concrete systems. An **interactive Q&A session** followed, where students actively engaged with the speaker to gain deeper insights.

The program concluded with a vote of thanks delivered by **Dr. Amal Azad**, Assistant Head of the Department and Faculty Coordinator of the IGS Students Chapter, who expressed heartfelt appreciation to the speaker, dignitaries, and all participants for making the event a success.

The talk helped students gain clarity on the practical aspects of geotechnical engineering and emphasized the importance of proper investigation and design in infrastructure projects.



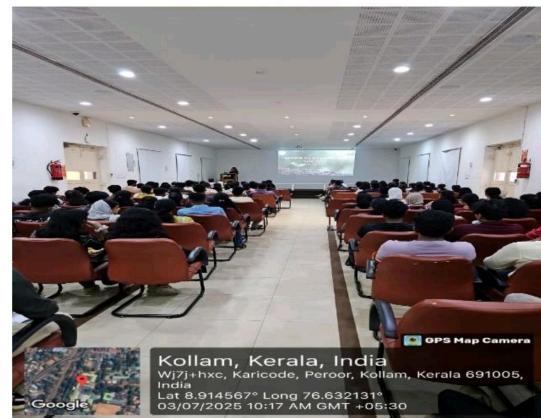
Event Poster



Dr. Unnikrishnan handling the session



Presenting token of appreciation



Event participation

“STRONG ROADS ARE BUILT FROM A STRONG FOUNDATION”



Unnikrishnan N

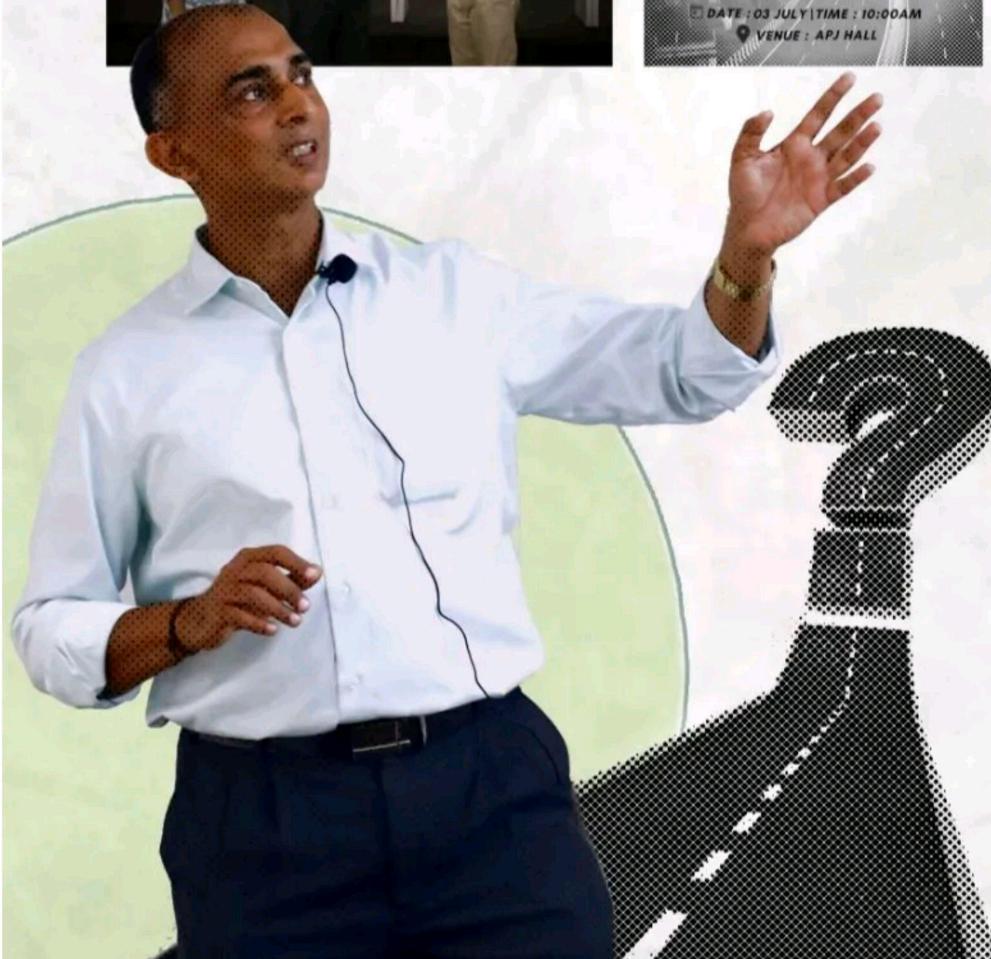
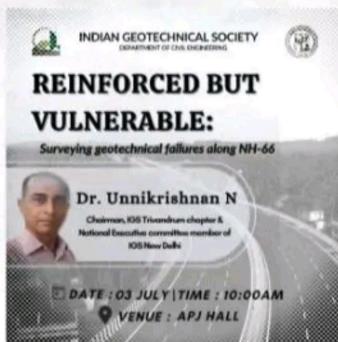
10h ·

After my lecture "Reinforced but vulnerable: Surveying Geotechnical Failures along NH66". Excellent and enthusiastic crowd. Really enjoyed the questions from the students. TKM College of Engineering continues to impress with its committed faculty and well-disciplined student community. Thank you for the opportunity!

#nh66kerala

#kooriyad

#geotechnicalengineering #geotechnical



‘രേഖിയപാട
തിർമാണത്തിലെ വീഴുവ
മല്ലേ’ പബ്ലിക്കേഷൻ
സെറിയായ ചിത്രിയിൽ
നടത്താത്തത്

കെ.ഐ.ഡി. മല്ലേ പത്രികാധികാരിയായ ശരിയായ തിരിയിൽ നടത്താത്തതാണ് ഒദ്ദേശ്യപാത നിർമ്മാണത്തിലെ പിലാഗിടങ്ങളിലെ വിശ്വവിജ്ഞാനക്കൂട്ടും തിരുവനന്തപുരം ചാപ്പറ്റി അധ്യക്ഷൻ ഡോ.എൻ.ഉള്ളികുഞ്ഞൻ.

നിലവിലെ ഒദ്ദേശ്യപാത നിർമ്മാണം റീഇൻഫോഴ്സ്മെന്റ് എഞ്ചിനീയർ പാനൽ (ആർഎ പാനൽ) ഉപയോഗിച്ചാണ്. എന്നാൽ, കേരളത്തിലെ മല്ലേയിൽ മെക്കാനിക്കൽ സർവ്വവിദ്യാലയവും എർത്തൽ (എ.എസ്.എൽ) പാനൽ ഉപയോഗിച്ചിരുന്നുവെങ്കിൽ നിർമ്മാണം കൂടുതൽ കാര്യക്ഷമമാക്കുമായിരുന്നുവെന്നും അഭ്യന്തരം പറഞ്ഞു.

ടിക്കുറ്റം എൻജിനീയറിൽ കേരളജിലെ നിവിൽ എൻജിനീയറിനും പിഡാഗ., സൈജിന്റെ സ്ക്രൂഡിനും ചാപ്പറ്റും സംസ്കൃതമായി സംബന്ധിച്ച സെമിനാർമുഖ്യപ്രകാശണം. നടങ്കുകയായിരുന്നു അദ്ദേഹം.

മുൻ പ്രിൻസിപ്പൽ ഡോ. ആർ. നജീബ് അധ്യക്ഷനായിരുന്നു. സിപിൽ എൻജിനീയറിൽ വിഭാഗം മേധാവി ഡോ. എൻ. ആർ. ശ. ഉമദ്ധേവാരി ഡോ. അമൽ ആസാദ്, എഞ്ചിനീയർ സ്ക്രൂഡിനും സിലിന്റർ ബോൾ ബി. മുരളികുമാർ എന്നിവർ പ്രസംഗിച്ചു.

Technical Talk session -Feedback Form Responses

Timestamp	Name	Year & Batch	How valuable was this session to your learning or	What was the most interesting takeaway from the	Any suggestions for upcoming events?
7/4/2025 5:56:36	Ebin Antony Elenjikkal	3rd Year, CSA	Very insightful and engaging	Very Needful Session.	GIS Workshop
7/4/2025 6:05:54	Aliya Nasrin B S	3rd year, CSA	Very insightful and engaging	About the techniques	
7/4/2025 6:57:01	Aami S Nath	3rd c5a	Very insightful and engaging	Engaging interaction	
7/4/2025 9:44:32	Sanjana Naushad	3rd year CSA	Very insightful and engaging	Case study on recent failures	More case study
7/4/2025 9:45:24	Athira Venugopal	3rd yr,CSA	Very insightful and engaging	About kooriyad	No
7/4/2025 9:46:17	Yadhu Krishnan J J	3rd year CSA	Neutral	Was able to know more about the failures occurred	
7/4/2025 9:47:38	Hanna P M	3rd year civil CSA	Very insightful and engaging	Visuals of each sites in the presentation helps to understand	
7/4/2025 9:56:29	Hiba Hanan V G	2nd year A batch	Very insightful and engaging	Reason for NH 66 failure	
7/4/2025 10:01:34	Mohammed Adeeb Ersh	CSA	Very insightful and engaging	About kooriyad site	
7/4/2025 10:04:01	PRATHUL K	CSA	Very insightful and engaging	Truth of NH66 failure from a field professional	Nil
7/4/2025 10:06:04	Athira. B. R	3rd year civil A batch	Very insightful and engaging	It was good to know about different work sites.	
7/4/2025 10:24:40	Vishnuvardhan	C5 A	Very insightful and engaging	An introduction to foundation engineering	No
7/4/2025 14:49:21	Abhijith S	Third Civil	Very insightful and engaging	The key reason behind the failure of the construct	

Reinforced but vulnerable:Surveying Geotechnical Failures along NH66

TECHNICAL TALK HELD on 3rd july	02-07-2025 Jul	Momento for guest	Event expense	300	-300	-300
	02-07-2025 Jul	Train ticket:TVM to Kollam (LTG Garib Rath)	Travel	244.05	-244.05	-544.05
	02-07-2025 Jul	Train ticket: Kollam to TVM (Vande Bharat)	Travel	444.05	-444.05	-988.1
	02-07-2025 Jul	Water bottle (6no.s)	Refreshments	58	-58	-1046.1
	02-07-2025 Jul	Print and A4 (from TKM store)	Stationery	8	-8	-1054.1
	02-07-2025 Jul	Biscuit	Refreshments	10	-10	-1064.1
	02-07-2025 Jul	Print from ellvila	Stationery	75	-75	-1139.1
				0		-1139.1