



**IE(I) STUDENTS' CHAPTER – CIVIL  
CHAPTER CODE: 388120/BVME/CV  
B.V.M ENGINEERING COLLEGE,  
V.V. Nagar – 388120.**

Chairman: **Prof. (Dr.) S. D. Dhiman**

Faculty guide: **Prof. A. N. Bhavsar**

Advisor: **Prof. N. F. Umrigar**

Report on

**"GATE Seminar on Structural Analysis"**

**Total number of students:**

**Faculty Co-ordinators**

Dr. H.J. Chauhan

Dr. D.S. Modi

Prof. A.N. Desai

Prof. A.N. Bhavsar

**OBJECTIVE**:- To enlighten the students about the Gate Examination and invigorate their spirits to start its preparation.

A 4-hour GATE seminar on 'Structural Analysis' was organized by IE(I) Students' Chapter Civil on 28<sup>th</sup> January 4<sup>th</sup> February, 25<sup>th</sup> February 3<sup>rd</sup> March from 10:00 am-2:00 pm at E-210 Civil Wing.

Eminent speaker Prof. Mukesh Rai (Gate Acumen Academy) were invited who gave an informative and enthralling Lecture.

**28th January 2023,**

The Seminar began with the welcoming speech followed by memento being presented by Dr. I.N Patel (Principal, BVM Engineering College) and Prof. A.N. Desai (HOD,

Structural Department) to our speakers Prof. Mukesh Rai and Shivam sir respectively. After presenting the memento Principal sir and the faculty co-Ordinator motivated the students by sharing their wisdom. Total 60 students enrolled for the seminar.

The session commenced immediately after the delightful welcome. Prof. Mukesh Rai briefed the students about the GATE examination and its benefits. After giving the brief introduction he began the lecture by briefing the students with fundamentals of structure and covered numerous topics meticulously which would make these topics a piece of cake for the students, which included:

- Classification of structures on the basis of Geometry.
- Classification of structures on the basis of stiffness. □ Brief introduction about 'what is Structural Analysis?' □ Types of supports.
- Briefed about equilibrium conditions.
- Types of indeterminacy and calculation of degree of Static Indeterminacy.

After covering the topics Prof. Mukesh Rai gave some tips and tricks to solve the numerical on indeterminacy. After the session the attendees were provided with refreshments.

#### **4th FEBRUARY ,2023**

On that day Prof. Mukesh Rai given lecture on Structural Analysis topic Static indeterminacy and kinematic indeterminacy in that he covered theory part and solved GATE numerical. After the session the attendees were provided with refreshments.

#### **25th February,2023**

On that day Prof. Mukesh Rai given lecture on Structural Analysis topic Stability of Beams and Frames in that he covered theory part and solved GATE numerical. After the session the attendees were provided with refreshments.

#### **3rd March,2023**

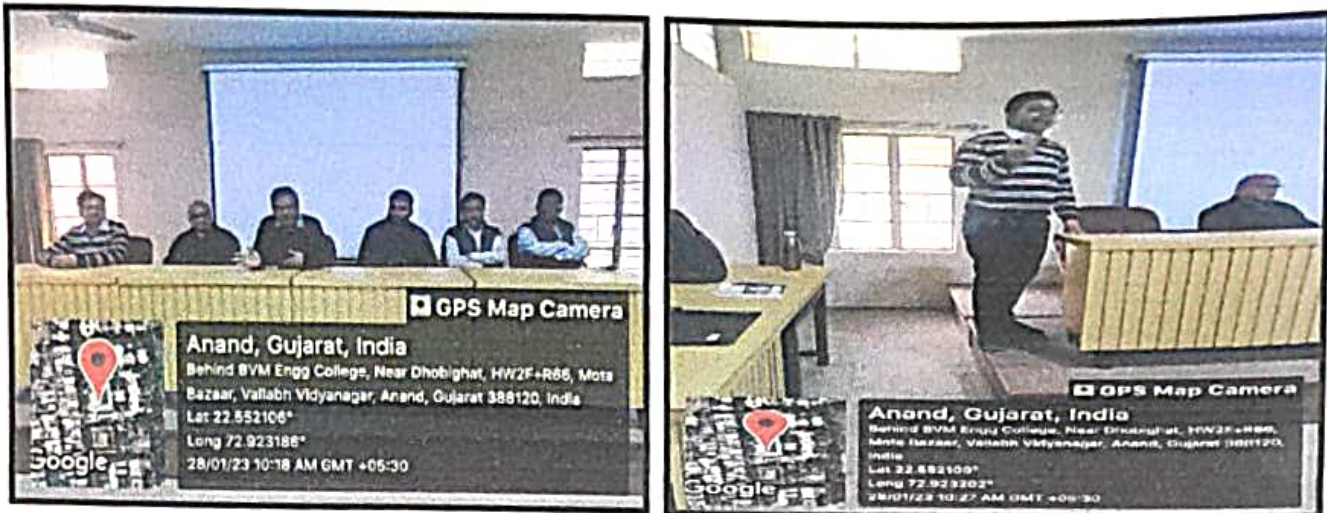
On that day Prof. Mukesh Rai given lecture on Structural Analysis topic Truss and Influence Line Diagram in that he covered theory part and solved GATE numerical. In the last session of GATE Prof. Mukesh Rai given guidance about GATE and gave motivation to crack Exam. After the session the attendees were provided with refreshments.

#### **Program Outcomes**

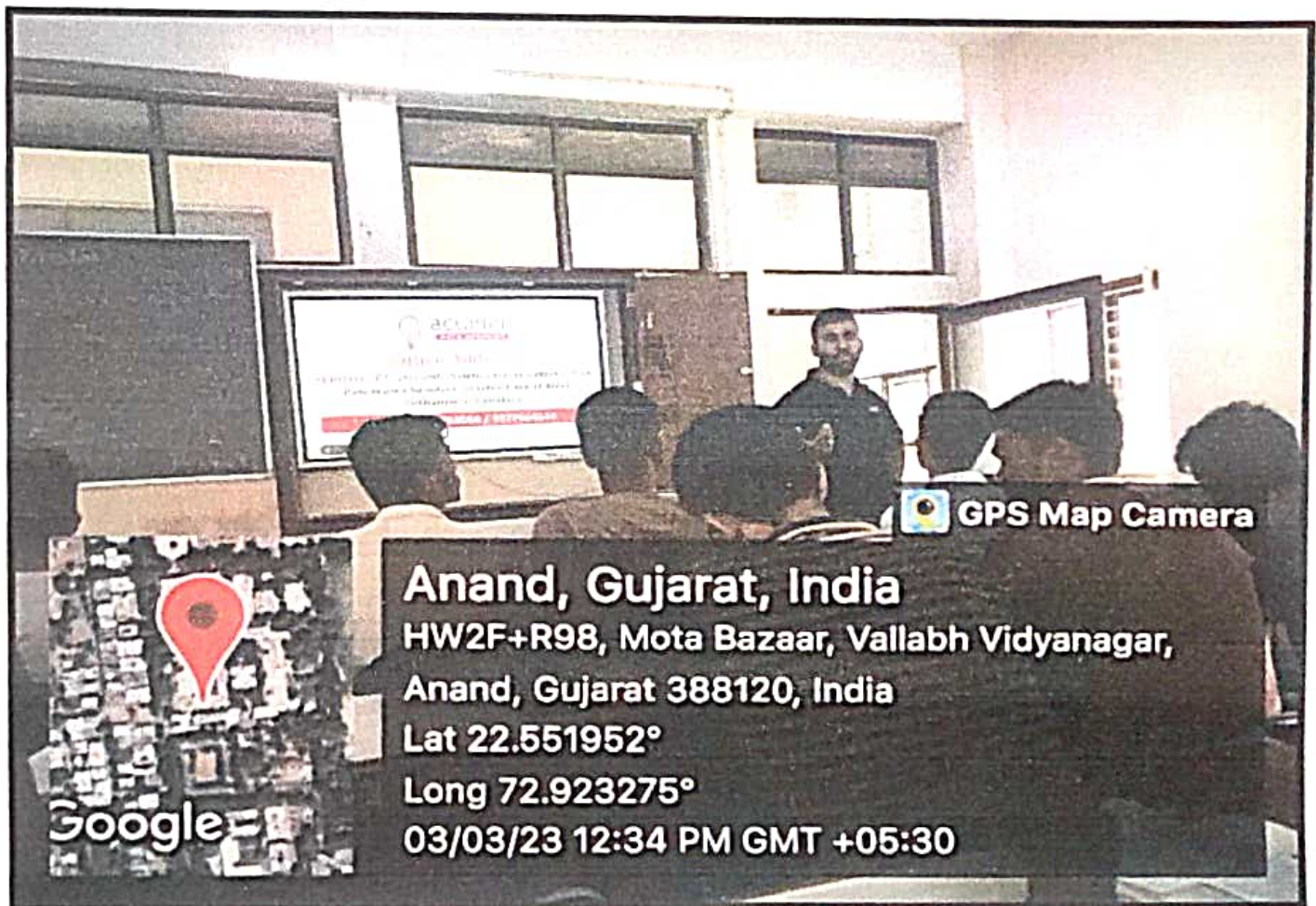
- Students were acknowledged with the benefits of GATE Examination.
- Students were acquainted with the fundamentals of structural analysis by a subject matter expert so that the aspiring students can enhance their preparations.



**Delineation:**



**Fig. (1) Dr. I.N. Patel and faculty co-ordinators sharing their wisdom to motivate the students**



**Fig. (2) Prof. Mukesh Rai briefing the students about GATE**



**Fig. (3) Prof. Mukesh Rai Sir Motivating the students and concluding the session.**

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○ ~~Team~~ ~~ISS~~ (Birla vishwakarma mahavidyalaya)  
3/3/23 [Registration]

SR No.	NAME	EMAIL ID	ID No.
1	Raichan Umang	krupayasharma23@gmail.com	21CE056
2	Chudasama Dharmesh V.	chudasamadharmesh23@gmail.com	21CE060
✓ 3	Dharmil V. Chauhan	Dharmilchauhan23@gmail.com	21CE026
✓ 4	Jadhav K. Jai	jkjani2012@gmail.com	21CE070
5	Bhanu Prasad	Bhanubhanu1999@gmail.com	21CE014
6	Darsh Ajmera	dajmera3012@gmail.com	21CE017
7	Urvish Falade M.	ufalade7@gmail.com	21CE009
8	Omang Suthell	suthellomang128@gmail.com	21CE054
9	Sachin Sachin	Sachinsachin1911@gmail.com	21CE050
10	Kaushik Mayur	mayurkaushik1988@gmail.com	21CE064
11	Kinjan Chaudhari	kinjanchaudhari23a	21CE021
12	Dhruv Dhanish	dhruvdhanish2001@gmail.com	21CE062
13	Jagat Jaydip	Jaydip.jagat@gmail.com	21CE061
14	Md Arif	mdarif5105@gmail.com	22CE326
15	Bavaliya Vipul V.	bavaliyavipul@gmail.com	22CE310
16	Rohit Madhu	rohit.madhu14@gmail.com	21CE154



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25/3/23 GATE [Registration]

SR No.	NAME	EMAIL ID	ID No.
1)	Falady Unvish M.	ufalady7@gmail.com	21CE009
2)	Ajmera Darsh M.	dajmera3012@gmail.com	21CE017
3)	Parmanu Bhuntik R.	parmanubhunik747@gmail.com	21CE014
4)	Dharmil Chavhan	Dharmil023cc@gmail.com	21CE026
5)	Pankhamiya sandhya S.	sandhyashaileshbhai@gmail.com	22CE377
6)	Meghnathi Kirti H.	knrtim2004@gmail.com	20CE325
7)	Karavadasai Divya A	karavadasaividya@gmail.com	22CE376
8)	Radhika Makani	makaniradhika23@gmail.com	22CE301
9)	kinjara chandhari	kinjarachandharisr@gmail.com	21CE027
10)	Vaishali Mahla	vaishalimahla9102023@gmail.com	21CE075
11)	Vivek Gohil	vivekgohe@gmail.com	22CE307
12)	MD -ARF	mdarfclass@gmail.com	22CE226
13)	Pratishtha Khandelwal	pkhandelwal9@gmail.com	21CE058
14)	Karishma Mayur	mayurkarishma@gmail.com	21CE069
15)	Suthar Umang	sutharumang12@gmail.com	21CE084
16)	Sachin Chakri	Sachinm4618@gmail.com	21CE050
17)	Rohit Madhu	ROHIT.MADHU14@gmail.com	21CE154
18)	Priya Patel	patelpriyak2023@gmail.com	22CE090
19)	Monika Sharma	256150123@gmail.com	21CE007
20)	Soham Prajapati	sohamprajapati613@gmail.com	21CE113
21)	Umang R. Kulkarni	umangr.kulkarni2@gmail.com	22CE056



4/2/23

Name	Id number	Email ID	phone number	sig. turn
Kamini	19CE045	Kamini1972@	6359592041	Y. D. Patel
Foram	29CE067	forampatel979	9327038262	Foram
Priya	21CE090	patelpriyax2019@	8167972453	Priya
Manika	21CE007	manika1988@	9316156096	Manika
Vaishali	21CE075	vaishalimetal@	9425515794	Manika
Sajal	21CE052	sajalsharma198	9313126320	Sajal
Vivek	22CE307	viveksharma19	9028382071	V. P. Gohil
Dharmesh	21CE060	dharmesh1984@	7046162062	Dharmesh
Krush	21CE029	krush1985@	9171423605	V. P. Gohil
Piyu	21CE033	piyushkumar19	9879008447	Piyu
Krushkesh	21CE008	krushkesh1988@	98981341837	Krushkesh
Romit	21CE033	romitsharma19	9397859678	Romit
Anilraj	21CE085	anilraj1988@	917039257	Anilraj
Dhruvi	21CE026	dhruvi1988@	878095123	Dhruvi
Ayush	21CE044	ayush1988@	922049018	Ayush
Kishun	21CE065	kishun1988@	9408045630	Kishun
Vaishnavi	19CE204	vaishnavi1988@	8740250138	Vaishnavi
Maman	19CE135	maman1988@	6357238109	M. M. Shah
Vishal	21CE058	vishal1988@	6351023474	Vishal
Manish	19CE128	manish1988@	908103205	Manish
Vaibhav	21CE802	vaibhav1988@	992579733	Vaibhav
Vijay R	21CE056	vijay1988@	9076420414	Vijay
Hitesh P	21CE051	hitesh1988@	9359447498	Hitesh
Nital V	21CE055	nital1988@	921390767	Nital
Darsh	21CE017	darsh1988@	8511193864	Darsh
Almaz	21CE093	almaz1988@	820092553	Almaz
Umesh	21CE009	umesh1988@	9016600296	Umesh
Jaydeep	21CE061	jaydeep1988@	8849938122	Jaydeep
Urvish	21CE062	urvish1988@	9265297235	Urvish







Name	id no	Email	Phone	Sign
Mayuri	21CE064	mayurijoshi1995@gmail.com	9773120387	
Uday	21CE054	udaykumar1995@gmail.com	913908812	
Sachin	21CE050	sachinmeshram1995@gmail.com	9513613521	
Pratik	21CE014	pratikbhosale1995@gmail.com	6353340853	
Swati	21CE058	swatibhale1995@gmail.com	9399121200	
Sumit	21CE019	sumitkumar1995@gmail.com	8781281672	
Pravin	21CE011	pravin1995@gmail.com	9909904000	
Dhruv	21CE148	dhruvbhosale1995@gmail.com	9169692661	
Jitraj	21CE039	jitraj1995@gmail.com	9714709995	

Dhaval 21CE015 dhavalchouhan1995@gmail.com 8469354293

Ankit 21CE059 ankit1995@gmail.com 7016445732

Kaustik 21CE076 kaustik1995@gmail.com 7954922399



