



Sant Dnyaneshwar Shikshan Sanstha's
Annasaheb Dange College of Engineering and Technology, Ashta
(Approved by AICTE, New Delhi, Gov. of Maharashtra, and affiliated to Shivaji University Kolhapur)

Department of Aeronautical Engineering

Date: 20th Oct 2020

Title of Event: How to prepare for GATE 2021

Objective/s: The objective of this event is to motivate and inform students of aeronautical engineering about the GATE examination 2021.

Duration of the event : 17th Oct 2020

Details of Resource Person/s: Ms. Priyanka Hankare
Research Scholar, IITB
(Alumni Aero : 2016-17)

Co-organizer/ Sponsor (if any): ADCET Alumni Cell

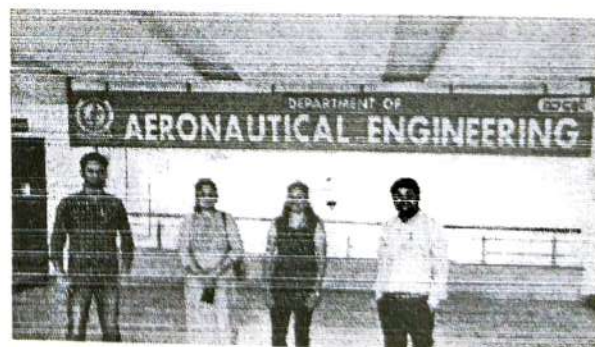
Target Audience: Third year and final year students from department of Aeronautical Engineering

No. of Attendees : 45

Contents:

- GATE examination –Why to appear for GATE, types of questions, GATE 2021 changes, Exam patterns, Syllabus, cutoff etc
- Scholarship
- Study tips
- Opportunities after M.Tech

Photo/s:



Details of Coordinator/s: Mr. Yogesh B Kumbhar
Alumni Coordinator, Aeronautical

YB K
Coordinator

Ballick
Head of the Department

Academic Profile

Miss Priyanka Hankare

Email Id : priyah@iitb.ac.in

Phone No. : +917720879590

Examination	University/Board	Year of passing	Percentage/CPI
Ph. D. (Aerodynamics)	IIT Bombay, Maharashtra	Currently pursuing	9.8
M. Tech (Aerodynamics)	IIT, Kanpur, Uttar Pradesh	2019	8.2
B.E. (Aeronautical)	ADCET, Ashta, Maharashtra	2017	84.33%

PROJECT DETAILS:

M. TECH THESIS: SHOCK DETACHMENT IN GRAVITY DRIVEN GRANULAR FLOW.

- The flow of materials like sand, snow, nuts, coal, rice, coffee, glass beads is called as granular flow.
- Being speed of sound very low in granular flow, it is possible to achieve very high Mach number even hypersonic flow at low speed of flow.
- Here the shock detachment for different wedges is being studied with different sizes of granular glass beads. This study depicts the shock wave relations for granular flows.
- It has applications in preventing structures from snow avalanches, debris, etc.

B.E. PROJECT: NUMERICAL ANALYSIS OF VORTEX LIFT OVER A DOUBLE DELTA WING.

- The vortex lift is the method by which highly swept wings (like delta wings) produce lift at high angles of attack.
- Study of flow behavior over a double delta wing at high angle of attack and high swept back angle.
- The behavior of the flow field over the double delta wing is studied using ANSYS CFX and predicted the behavior using the post processor of ANSYS CFX.
- Simulations are performed at different AOA to determine the stall angle of attack.

INTERNSHIP PROJECT: ENHANCEMENT OF PERFORMANCE OF VERTICAL AXIS HYDROKINETIC TURBINE

- The Computational study of different vertical axis hydrokinetic turbine has been carried out to establish the improvement in the performance due to modifications to the turbine geometry
- The ANSYS Fluent simulations are performed to study the starting torque and torque ripple characteristic of turbine.
- In this project comparison of the performances of the straight, ducted straight, 2-tier and ducted 2-tier VHKT are made. Non-dimensional parameter termed power coefficient is considered as the performance parameter at different tip speed ratio.

PUBLICATIONS:

- Khan, A., Hankare, P., Verma, S., Kumar, R., & Kumar, S. (2019). Shock detachment in granular flows. In *International Symposium on Shock Waves (ISSW32)*.
- Khan, A., Verma, S., Hankare, P., Kumar, R., & Kumar, S. (2020). Shock-shock interactions in granular flows. *Journal of Fluid Mechanics*, 884.
- Khan, A., Hankare, P., Kumar, S., Kumar, R., Verma, S., & Prakash, S. P. (2019). Shocks and Shock Interactions in Granular flow Past Circular Cylinder. In *AIAA Aviation 2019 Forum* (p. 3075).

ACHIEVEMENTS:

- GATE Qualified in 2017-AIR318, 2019-AIR298.
- Received Summer Research Fellowship at IIT Madras by *Indian Academy of Sciences*
- University topper in B.E.
- Received Shivaji University Merit Scholarship

Invitation for Interaction - GATE

3 messages

Yogesh Kumbhar <ybk_aero@adcet.in>
 To: itspriyanka96@gmail.com
 Cc: "Dr. Lovely Mallick" <hod_aero@adcet.in>

Wed, Oct 14, 2020 at 3:25 PM

Priyanka,

As per our discussion, I want to invite you to have interaction with TY and BTech students.

Topic : GATE awareness and preparation
 Date : 17th October 2020
 Time : 2:00 PM - 4:00 PM
 Platform : Zoom

Thank you.

Yogesh Kumbhar
 Assistant Professor
 Aeronautical Engineering Department

Pri uploads <itspriyanka96@gmail.com>
 To: Yogesh Kumbhar <ybk_aero@adcet.in>

Wed, Oct 14, 2020 at 6:27 PM

Hello Sir,
 Thanks for the invitation. I will be there at the prescribed time.

—
 Thanks and regards,

Priyanka Hankare,
 Research Scholar,
 IIT Bombay

Yogesh Kumbhar <ybk_aero@adcet.in>
 To: Pri uploads <itspriyanka96@gmail.com>
 Cc: "Dr. Lovely Mallick" <hod_aero@adcet.in>

Sat, Oct 17, 2020 at 4:34 PM

Ms. Priyanka,

I would like to extend my sincerest gratitude towards you for your inspirational guidance session on GATE exam preparation. Your knowledge and views have inspired students. It can be seen from the feedback.

Please accept our appreciation for such a commendable job. You have covered all essential elements of GATE and your description of how to execute it is remarkable.

I once again would like to thank you for such a wonderful interaction and hope to get a chance to hear such interactions from you in future also.

sincerely,

Yogesh Kumbhar
 Alumni In-charge,

Aeronautical Engineering Department,

Annasaheb Dange college of engineering and Technology, Ashta.

P.S. I have attached interaction recordings and the **feedback** file link here for your information.

Feedback : <https://docs.google.com/spreadsheets/d/1PktoYtJbuVt6rahLJfTm49-28hGqX7y5i1OAoJJWHDo/edit?usp=sharing>

Interaction recordings : <https://drive.google.com/file/d/13CsqeHTEAxTwDfW4z2yN26FW1VxJW8cJ/view?usp=sharing>

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GATE 2021

By:
Miss Priyanka Hankare,
Currently Research Scholar @ IIT Bombay,
M.Tech (Aerospace) @ IIT Kanpur,
B.E. (Aeronautical) @ ADCET.

WHY GATE....????



GATE 2021 CHANGES

- 3rd year students, final year students and pass out students.
- No limit on number of attempt.
- No criteria of minimum percentage in B.Tech.
- Score validity : 3 years.
- Can apply for two papers for given combination
- For aero (AE+XE-Engineering science)

XE SYLLABUS

- General Aptitude (compulsory 15 Marks)
- Engineering Mathematics (compulsory 15 Marks)
(Any two optional sections 2*35=70)
- Fluid mechanics
- Material Science
- Solid Mechanics
- Thermodynamics
- Polymer science and engineering
- Food Technology and engineering
- Food Technology
- Atmospheric and Oceanic Science

EXAM PATTERN



EXAM PATTERN

Section	No of Questions	Type of questions	Marks
Technical + Maths	55	MCQ, MSQ, and NAT	85 (1M & 2 M que)
General Aptitude	10	MCQ, MSQ, and NAT	15 (1M & 2 M que)



Department of Aeronautical Engineering

Date: 18th Oct. 2014

Event: How to prepare for GATE 2021

Attendance list

Sr. No.	Name of student	Attendance
1.	Omkar Rajmane	Present
2.	Shweta Melkunde	Present
3.	Omkar Bhagavan Patil	Present
4.	Vaishnavi Sambhaji Jadhav	Present
5.	Suraj Anil Koulapure	Present
6.	Vrushabh Patil	Present
7.	Suman Yadav	Present
8.	Mrunal Sambhajirao Bhosale	Present
9.	Shreya Yashwantrao Jadhav	Present
10.	Pritee Dattatray Nale	Present
11.	Mohammad Owais Abdul Sattar	Present
12.	Harshal Dinesh Diwate	Present
13.	Vishal Sanjay Shejwal	Present
14.	Rahidnya Ramling Shinde	Present
15.	Abhimanyu Tanange	Present
16.	Karishma Thik	Present
17.	Vaishnavi Furmalkar	Present
18.	Manoj Balajirao Mungde	Present
19.	Sachin Suresh Hambir	Present
20.	Pranav Patil	Present
21.	Kalpesh Jagadale	Present
22.	Shyam Shukla	Present
23.	Abhijeet Salunke	Present
24.	Jadhavakash385@Gmail.Com	Present
25.	Pratiksha Kulmethe	Present
26.	Sagar Gawali	Present
27.	Saloni Sushant Pardeshi	Present
28.	Akshaykumar Sunil Rode	Present
29.	Thejaswini Lali Panickar	Present
30.	Harshada Pudale	Present
31.	Akash Hatkar	Present
32.	Shubham Dattatray Gunjal	Present
33.	Manthan Patil	Present
34.	Tanmay Gholap	Present
35.	Ajinkya R Dhoble	Present
36.	Rushiraj Patil	Present
37.	Pooja Patil	Present
38.	Pramila Bote	Present

39.	Pratik Mali	Present
40.	Sahilraj Dattatray Karavai	Present
41.	Rohasen Misal	Present
42.	Yadav Abhijeet Anil	Present
43.	Saurabh Bhosakar	Present
44.	Akshaykumar Sunil Rode	Present
45.	Omkar Rajmane	Present



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Analysis of Feedback

Sr. No.	Overall rating given by students (out of 5)	Number
1	Number of students given rating 5	31
2	Number of students given rating 4	13
3	Number of students given rating 3	0
4	Number of students given rating 2	0
5	Number of students given rating 1	0
6	Average of all ratings	4.704545

Google Form - Responses

Timestamp	Your name	Class	Overall how do you rate this event?	What did you like about the event?	What did you disliked about the event?	Is there any you want to share the event?
10-17-2020 13:35:28	OMKAR RAJMANE	BTECH	5	WHOLE SESSION	nothing	no
10-17-2020 13:35:35	Shweta melkunde	TY btech	5	Whole session	Nothing	No
10-17-2020 13:35:48	Omkar Bhagavan Patil	BTech	5	Doubt clearing session	Nothing	No
10-17-2020 13:36:00	Vaishnavi Sambhaji Jadhav	TY	5	Clear all thing's about Gate .	Nothing	It was great session.
10-17-2020 13:36:04	Suraj Anil koulapure	SY	5	Mam cleared all doughts about paper pattern	Nothing	No
10-17-2020 13:36:11	VruShabh Patil	B tech	5	Inspirational	Could have arranged before.	
10-17-2020 13:36:12	Suman Yadav	Final year Btech	4	Strategy	Nothing to dislike	No
10-17-2020 13:36:23	Mrunal Samibhajirao Bhosale	Final year B.Tech Aeronautical	5	Everything.Nice presentation and information was useful.	No	I like the session.
10-17-2020 13:36:45	Shreya Yashwantrao Jadhav	T. Y. Aeronautical	4	The way she was explaining the preparation part and scope of engineering after gate	Nothing	I liked it and I will request you to conduct more sessions like this
10-17-2020 13:36:52	Pritee Dattatray Nale	TY -Aero	5	It was informative and inspiring too. Ma'am told us about IIT very clearly and in simple language. It was great interaction. Thank you!	Nothing	Nothing

0-17-2020 13:37:04	MOHAMMAD OWAIS ABDUL SATTAR	TY	5	Clearing doubts & inspiring us	I think nothing was there to dislike	no . Thank you for arranging this
0-17-2020 13:37:05	Harshal Dinesh Diwate	SY_Aero	5	Information about GATE	More info about IIT	More tips and strategies would be helpful
0-17-2020 13:37:15	Vishal Sanjay Shejwal	T.Y.Btech	5	Mam had given her best experience about gate exam	Nothing	Very effective efforts our faculties and alumnis are taking,thank you all of
0-17-2020 13:37:41	Rahidnya Ramling Shinde	B.Tech	5	In few words,session was very simple and useful.	Nothing to dislike it was just awesome.	If you can please share the PPT.
0-17-2020 13:38:00	Abhimanyu Tanange	T.Y.Btech	5	For me it's inspirational event very much thanks from me.	Nothing, it was good.	It was great, I get to know some unknown insights of the GATE.
0-17-2020 13:38:01	Karishma thik	Ty aeronautical	5	It was informative and good	Nothing	This event is helpful in appear in Gate exam
0-17-2020 13:38:11	Vaishnavi Furmalkar	T. Y	5	Explanation regarding exam pattern, syllabus & scope and motivation	Nothing is to dislike in event.	No
0-17-2020 13:38:15	Manoj Balajirao Mungde	B TECH	5	The way she inspired us. And covered each and every point required for GATE preparation.	Nothing	Excellent conversation.
0-17-2020 13:38:29	Sachin Suresh Hambir	TY aeronautical	5	Advantages of GATE exam	No	Nothing else
0-17-2020 13:38:29	Pranav patil	3 year	5	Motivation	No	No
0-17-2020 13:38:59	Kalpesh jagadale	BE	4	I like everything expecially hoe to prepare is that i like most .	Nothing	No sir, it was a great event .

0-17-2020 13:39:04	Shyam shukla	TY aeronautical	5	Information provided quit good	Nothing	No
10-17-2020 13:39:11	Abhijeet Salunke	TY Btech	5	All presentation	Nothing	No
10-17-2020 13:39:25	jadhavakash385@gmail.com	Final year Aeronautical	4	It is good interaction with alumni.	Nothing	It was good experience.
10-17-2020 13:39:25	Pratiksha Kulmethe	S. Y (Aeronautical engineering) B-Tech	5	Yes	-	-
10-17-2020 13:39:53	Sagar Gawali	B.Tech	4	Event was very inspirational and motivational.	Nothing	Yes sure the event was exciting for How to get admission in IITs and all about the IITs like out off.
10-17-2020 13:40:37	Saloni Sushant Pardeshi	Final year	5	Everything.She motivated us to try hard.Thank you so much for this Session...	Nothing	No
10-17-2020 13:40:43	Akshaykumar Sunil Rode	BTech	5	The proper guidance about the GATE	Nothing	Overall event was helpful
10-17-2020 13:41:11	Thejaswini Lali Panickar	B.Tech	4	Interacting with a person who had experienced the GATE preparation, it's pressure, passion to explore the dream. Especially, I am very	Nothing	I would also wish to listen to Shantanu, 2019 pass out.
10-17-2020 13:41:13	Harshada Pudale	2 nd year	5	Information about Gate Exam and inspiration about getting into IITs	-	-
10-17-2020 13:41:51	Akash Hatkar	T.Y.Btech Aero	5	Gate preparation Technique and IIT life	Nothing	It is Inspiration for me.
10-17-2020 13:44:28	Shubham Dattatray Gunjal	Ty aero	4			

10-17-2020 13:45:25	Manthan patil	Final Year	5	Excellent content	Nothing	Nothing
10-17-2020 13:50:48	Tanmay Gholap	TY	5	Information about after Btech options	None	It was a good exposure towards mtech and PhD furler & preparation of
10-17-2020 13:51:17	Ajinkya R Dhoble	B tech	4	inspired by iits	Voices was not clear	Thing's has to little more precise.
10-17-2020 13:54:59	Rushiraj Patil	T.Y B. tech(aero)	4	Preparation	Nothing	Nothing
10-17-2020 13:58:46	Pooja Patil	Ty	5	Clearly explained about GATE	Nothing	No
10-17-2020 13:59:11	Pramila bote	TY aero	4	Half part	Nothing	May be no
10-17-2020 14:10:28	Pratik Mali	SY	5	Everything	Nothing	No
10-17-2020 14:15:51	Sahilraj Dattatray Karaval	T Y Aeronautical	4	Exam pattern and scope of GATE in future	Nothing	Nothing
10-17-2020 14:17:43	Rohasen misal	Final year	4	Information about gate	No any one	No any one
10-17-2020 14:21:28	Yadav Abhijeet Anil	SY B-Tech	5			Event was Great
10-17-2020 14:30:51	Saurabh bhosakar	Ty aero	4		No	No