

## DEPARTMENT OF MECHANICAL ENGINEERING

### WEBINAR REPORT ON “CFD APPLICATIONS IN BLUFF BODY FLOW ANALYSIS”.

HELD ON 01-08-2020

#### Coordinators



**Dr. C. Senthamarai Kannan**



**Mr. G Kirubakaran**



Dr. S. RAMESH BABU, M.E., Ph.D  
Professor & Head  
Department of Mechanical Engineering  
Sri Venkateswara College of Engineering  
Pennalur, Sriperumbudur (TK) - 602117.  
Tamilnadu, INDIA.

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karthymech114@gmail.com;vmuthukumar92@gmail.com;prathap.singh50@gmail.com;murugan@bec.

We request you to participate using the following link:

<https://meet.google.com/zgf-rctc-gkg>

Participants are requested to:

1. Connect with us by **Google meet** using **Join Now option only**, At any time don't use present now button, this will disturb the session.
2. Kindly join the session 10 mins before the scheduled time.
3. Participants are requested to post **queries in the chatbox only**, all queries will be addressed by the expert at the end of the session.
4. Participants are requested to avoid posting their personal identity in the chatbox.
4. The feedback cum certificate registration form will be circulated at the end of the session in the chatbox and the link will be active only for **30 minutes**. Don't share the certificate form. Certificates are meant only for participants.
5. Participants are requested to fill the form with all credentials and will receive the **E-Certificate in your registered email within a day**.

Looking forward to meeting you in the live webinar.

Convenor

**Dr. S Ramesh Babu**

**Professor & Head of the Department**

Coordinators

**Dr. C Senthamarai Kannan, AP/MEC**

**Mr. G Kirubakaran, AP/MEC**

Department of Mechanical Engineering,

Sri Venkateswara College of Engineering

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**Cc:** Deepakkumar R

**Bcc:** SENTHAMARAI KANNAN C Mec

**Subject:** Invitation for Expert Webinar on "CFD application in bluff body flow analysis"-01/08/2020 @ 11.00 am -12.30 PM (IST)

Dear Participant,

Greetings from SVCE...

This mail finds you in good health and prosperity.

Thank you for registering for the Expert Webinar on "CFD application in bluff body flow analysis", organized by the Department of Mechanical Engineering, Sri Venkateswara College of Engineering, Sriperumbudur, on 01-08-2020 from 11.00 am to 12.30 pm (IST).

**Thanks & Regards**

**Mr.G.KIRUBAKARAN,**

Research Scholar,

Assistant Professor,

Department of Mechanical Engineering,

Sri Venkateswara College of Engineering,

Pennalur, Sriperumbudur-602117.



**SRI VENKATESWARA COLLEGE OF ENGINEERING**

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Pennalur, Sriperumbudur Tk - 602 117, Tamil Nadu



## Department of Mechanical Engineering Organizes

Expert Webinar on

# CFD Application in Bluff Body Flow Analysis



Resource Person:

**Dr. Deepakkumar R**

Assistant Professor (SG )

School of Mechanical Engineering,  
Vellore Institute of Technology (VIT),  
Vellore, Tamilnadu.



### Patron

Dr. S. Ganesh Vaidyanathan  
Principal, SVCE

### Convenor

Dr. S. Rameshbabu  
Head of the Department  
Professor, Mechanical Engineering

### Coordinators

Dr. C. Senthamaraikannan, AP/MEC  
Mr. G. Kirubakaran, AP/MEC

### Scheduled on

**1<sup>st</sup> August 2020.**

**11.00 am to 12.30 pm (IST)**

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<https://forms.gle/dAU6ninzmAz5bQJe8>

E-Certificate for all participated and  
feedback submitted participants



## **Program Schedule**

- **Prayer Song**
- **Welcome Address by**

**Dr S Ramesh Babu**

- **Introduction to Chief Guest**

**Dr C Senthamaraiannan**

- **Expert talk**

**Dr. Deepakkumar R**

- **Questionnaire and Feedback**
- **Vote of Thanks by**

**Mr. G Kirubakaran**



## Resource Person



### **Dr. Deepakkumar R**

Assistant Professor (SG )  
School of Mechanical Engineering,  
Vellore Institute of Technology (VIT),  
Vellore, Tamilnadu.

## Participant's list

S.No	Name of the Participant	Name of the College	Designation	Place
1.	CHRISTIAN WALSH BENJAMIN	DR.JIVRAJ MEHTA INSTITUTE OF TECHNOLOGY	Student	ANAND
2.	ARUN.A.K	ACS college of engineering Bangalore	Faculty	Kengeri
3.	Mr. GAJAVADA SANJEEVKUMAR	Sree Chaitanya College of Engineering	Faculty	Karimnagar
4.	YATENDRA VINOD	NMDC DAV POLYTECHNIC, DANTEWADA	Faculty	GEEDAM
5.	A.THIRASHA	Sri Kaliswari College,Sivakasi	Student	Thirumangalam
6.	Rishabh Sharma	Institute of Engineering and Technology , Agra	Student	Agra
7.	Aniket More	MPGI NANDED	Faculty	NANDED
8.	B.EZHILARASY	AVC ENGINEERING COLLEGE	Student	MAYILADUTHURAI
9.	Sourav singh	Institute of Engineering and Technology,Khandari, Agra	Student	Agra
10.	Prasanth M	Kumaraguru College of Technology	Student	Coimbatore
11.	B IBRAHIM BASHA	KUMARAGURU COLLEGE OF TECHNOLOGY	Student	COIMBATORE
12.	SAMRAT SAHA	Kiit University	Student	Odisha
13.	Mohanrajhu N	R.M.K. Engineering College	Faculty	Chennai
14.	L. NAGA DURGAPRASAD REDDY(NDR)	SRI YN COLLEGE(A)	Faculty	Narsapur
15.	N.SHEEN KUMAR	st.Xavier's catholic college of Engineering	Faculty	Nagercoil
16.	Ashwin Kumar. V	Sri Venkateswara College of Engineering,Sriperumbudur	Student	Chennai
17.	Sandip Kondaji Bidgar	AISSMS College of Engineering Pune	Faculty	Pune
18.	ER.SHAILENDRA SINGH	IET KHANDARI CAMPUS DR BHIMRAO AMBEDKAR UNIVERSITY	Faculty	AGRA
19.	Praveen B	Kumaraguru College of Technology	Student	Coimbatore
20.	Justin Joshy	VIT Vellore	Student	TN
21.	JAYAKRISHNAN G N	A.R College of Engineering and Technology	Student	Tenkasi
22.	Dr. M. GAJENDIRAN	SRI VENKATESWARA COLLEGE OF ENGINEERING	Faculty	Sriperumbudur
23.	K.Gokulakrishnan	Sri Venkateswara College of engineering	Student	Theni
24.	VIKRANT TAPAS	NMDC DAV Polytechnic	Faculty	Dantewada

25.	ANANYA MAHAPATRA	VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY	Student	BURLA
26.	P.Umamaheswarrao	Bapatla Engineering College	Faculty	Bapatla
27.	R.MUTHURAJA	Alagappa Chettiar Government College of Engineering and Technology	Faculty	Karaikudi
28.	Mr.A.ARUN KUMAR	MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY	Faculty	PALAMANER
29.	Dr. M. RADHAKRISHNAN	Sri Venkateswara College of Engineering	Faculty	Sriperumbudur
30.	Sathish kumar A	St Joseph's Institute of Technology	Faculty	Chennai
31.	VIJAY V	SIM TECHNOLOGIES PRIVATE LIMITED	Industrialist	CHENNAI
32.	RAMKUMAR	RAMKUMAR	Faculty	Karaikudi
33.	Muruganandham K	ACGCET	Faculty	Karaikudi
34.	RAJESWARAN V	ARIFA INSTITUTE OF TECHNOLOGY	Faculty	mannargudi
35.	Aditi Pal	Kanchrapara College		Ranaghat, Nadia.
36.	Syed Mohammed Hussain	Sri Venkateswara College of Engineering	Student	Chennai
37.	SATHISHKUMAR C	Alagappa Chettiar Government College of Engineering and Technology	Faculty	Karaikudi
38.	Rishabh Sharma	Institute of Engineering and Technology, DBRAU, Agra	Faculty	Agra
39.	Mr. Santosh kumar	Dr. Virendra swarup group of institutions.	Faculty	Unnao (UP)
40.	THALLAPALLY ARAVINDU	Vardhaman college of engineering	Student	Kacharam, shamshabad , Rangareddy , telangana
41.	Dr. P. Manimaran	Karpagam Institute of Technology	Faculty	Coimbatore
42.	Dr.R.UMADEVI	Sri Venkateswara College of Engineering	Faculty	Chennai
43.	Y.Madhumitha	Indian biotrack research institute	Student	Thanjavur
44.	S.RAVI	Anjalai Ammal Mahalingam Engineering College	Faculty	Thanjavur
45.	CHANDRA SEKHAR S	N.B.K.R Institute of Science & Technology (Autonomous)	Faculty	Vidyanagar
46.	SARAN. T	Kumaraguru college of technology	Student	Coimbatore
47.	M.HARIHARAN	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	Student	TRICHY
48.	G.K.Manikandan	SSM College of Engineering	Faculty	Komarapalayam
49.	Pragadeeswaran.P	Anjalai Ammal Mahalingam Engineering College	Faculty	Thanjavur

50.	K.ULAGANATHAN	Erode sengunthar engineering college	Student	Erode
51.	L.S.DEETSHIKA	Stella Mary's college of engineering	Student	Nagercoil
52.	Garima Dubey	Institute of Engineering and Technology	Student	New Delhi
53.	TAPAS CHAKRABORTY	SAROJ MOHAN INSTITUTE OF TECHNOLOGY	Faculty	GUPTIPARA, HOOGHLY
54.	SUNDRA PANDIAN M	Sri Ramakrishna Institute of Technology	Faculty	Coimbatore
55.	K.VIJAYALAKSHMI	SRI VENKATESWARA COLLEGE OF ENGINEERING	Faculty	CHENNAI
56.	PHALACHANDRA Y V	K V G POLYTECHNIC SULLIA 574239	Faculty	SULLIA
57.	Suresh A	Varuvan Vadivelan institute of technology	Faculty	Dharmapuri
58.	R.PANCHAMOORTHY	Govt Polytechnic College,Uthangarai.	Faculty	Uthangarai.
59.	Ajay.T	Sri venkateswara college of engineering	Student	Chennai
60.	Khasge Santosh	Shinas College of Technology	Faculty	Shinas
61.	Dr. A. BHASKARAN	Sri Venkateswara College of Engineering	Faculty	Sriperumbudur
62.	Sundar Singh Sivam S.P	SRM Institute of Science and Technology	Faculty	Chengalpattu
63.	Mr V Senthil Velan	Sri Venkateswara College of Engineering	Faculty	Sriperumbudur
64.	Mr M Nishal	Sri Venkateswara College of Engineering	Faculty	Sriperumbudur
65.	Mr M Ram Prasad	Sri Venkateswara College of Engineering	Faculty	Sriperumbudur

  
**Dr. C. Senthamarai Kannan**

  
**Mr. G Kirubakaran**

  
**Dr. S. RAMESH BABU, M.E., Ph.D**  
 Professor & Head  
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 Tamilnadu, INDIA.

## EXPERT WEBINAR ON CFD APPLICATIONS IN BLUFF BODY FLOW ANALYSIS

Flow across a bluff body is a fundamental fluid mechanics research, Von-korman vortex street is a well-known phenomenon, in which the vortex shedding can be treated as a favorable or an unfavorable phenomenon depending on the applications. Vortex enhanced heat transfer on the one hand, and structural failure due to flow-induced vibration, on the other hand, has high scope in research. Power generation using alternate vortex shedding is a very recent thriving technique considered as a favourable phenomenon. The talk is focused on the introduction of bluff body flow followed by the computational fluid dynamics (CFD) research methodology to analyze the flow across a structure.

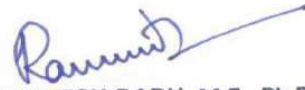
Expert explained how CFD works by using various factors like Geometry, Mesh/Grid, Physics, solver, and post-processing. Also discussed about different research topics available in CFD like Vortex shedding control using “local waviness” in the confining walls (Confined cylinder) and vortex shedding control using “Control plate” (Unconfined cylinder). Students, Research Scholars, and aspiring faculty members benefited from the Expert's real-time research studies. In CFD, vortex shedding control using local waviness and Control plates were clearly demonstrated with case studies.



**Dr. C. Senthamarai Kannan**



**Mr. G Kirubakaran**



**Dr. S. RAMESH BABU, M.E., Ph.D**  
Professor & Head  
Department of Mechanical Engineering  
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Tamilnadu, INDIA.

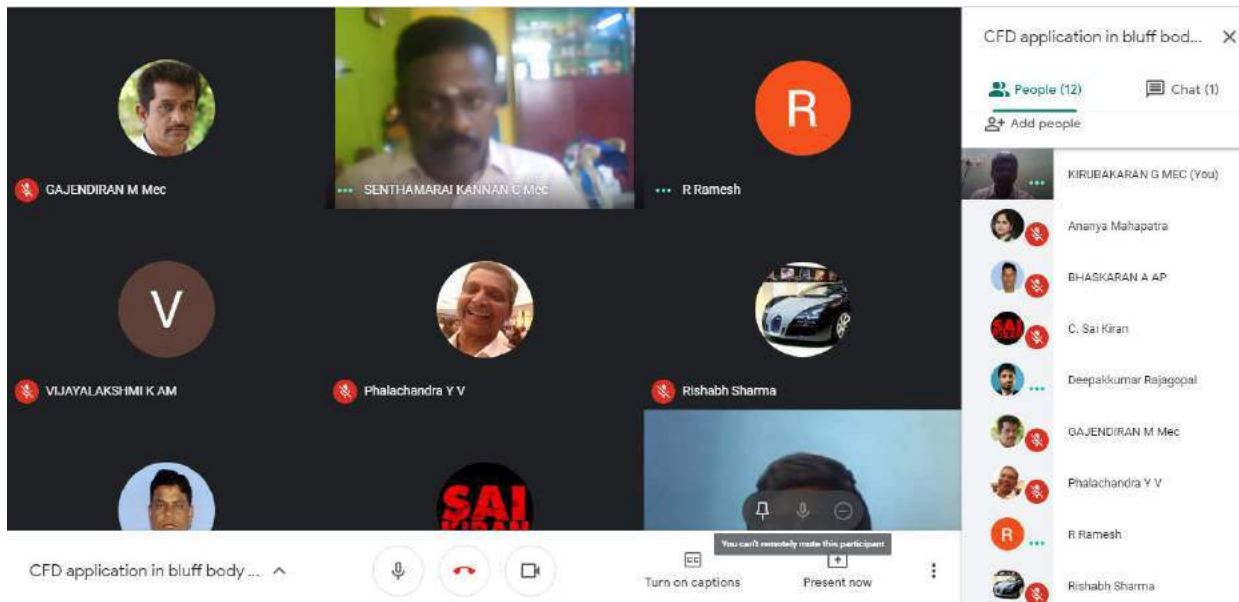
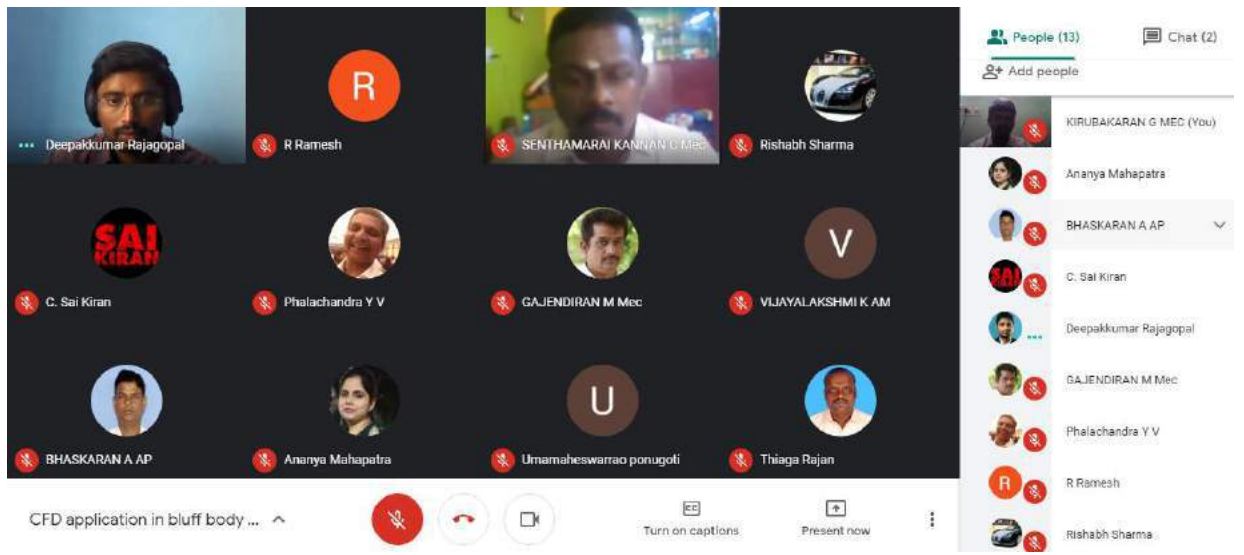
**Remarks of the Programe:** All participants gave excellent feedback about this webinar.

**Star Performer faculty:** Dr.C.Senthamaraikannan, AP/MEC, SVCE.

**Star Performer Student:** Ashwin Kumar. V (II year, Mechanical- A Section)

(Mobile Number: 9176650049) (Mail ID: [aswink386@gmail.com](mailto:aswink386@gmail.com)).

**PHOTOS:**



CFD application in bluff body ... ^

People (33) Chat

Add people

- KIRUBAKARAN G MEC (You)
- Ananya Mahapatra
- ARUN KUMAR
- B. ARUN KUMAR
- C. Sai Kiran
- Deepakkumar Rajagopal
- Deetshika L.S
- G N Jayakrishnan
- GAJENDIRAN M Mec

Turn on captions Present now

CFD application in bluff bod... X

People (25) Chat

Add people

- KIRUBAKARAN G MEC (You)
- Ananya Mahapatra
- B. ARUN KUMAR
- C. Sai Kiran
- Deepakkumar Rajagopal
- G N Jayakrishnan
- GAJENDIRAN M Mec
- GOKULA KRISHNAN MEC 022
- Hod Mech

Turn on captions Present now

The image shows a Zoom meeting interface. The main window displays a grid of 16 participants. At the top, there are four large video thumbnails: 'Hod Mech', 'SENTHAMARAI KANNAN C Mec', 'Deepakkumar Rajagopal', and 'R Ramesh'. Below these are smaller thumbnails for 'Santosh Star', 'C. Sai Kiran', 'Phalachandra Y V', and 'Maths4 You'. The next row shows 'ujwal rayala', 'UMADEV I R AM', 'GAJENDIRAN M Mec' (highlighted with a green bar), and 'Rajesh Waran'. The bottom row includes 'Mr.Mohanraj N ASSISTANT PRO...', 'VIJAYALAKSHMI K AM', 'shalendra singh', and 'G N Jayakrishnan'. At the bottom of the grid are icons for mute, video off, and gallery view, along with 'Turn on captions' and 'Present now' buttons.

The sidebar on the right is titled 'People (26)' and 'Chat'. It lists 26 participants with their names and profile pictures:

- KIRUBAKARAN G MEC (You)
- Ananya Mahapatra
- ARUN KUMAR
- B ARUN KUMAR
- C. Sai Kiran
- Deepakkumar Rajagopal
- G N Jayakrishnan
- GAJENDIRAN M Mec
- GOKULAKRISHNAN MEC 022





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## Department of Mechanical Engineering

(Accredited by NBA)

### Certificate of Participation

This is to certify that

**ANANYA MAHAPATRA**

**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY**

has participated in the Expert Webinar on “CFD Application in Bluff Body Flow Analysis”, delivered by **Dr. Deepakkumar R**, Assistant Professor (SG), School of Mechanical Engineering, Vellore Institute of Technology (VIT), Vellore, Organised by the **Department of Mechanical Engineering, Sri Venkateswara College of Engineering** on 1<sup>st</sup> August, 2020.

Dr C Senthamaraikannan  
Coordinator

[www.svce.ac.in](http://www.svce.ac.in)

Dr S Rameshbabu  
Convenor & HOD/MEC





# Sri Venkateswara College of Engineering

Pennalur , Sriperumbudur Tk, 602117

(Autonomous – Affiliated to Anna University, Accredited by NAAC)

## Department of Mechanical Engineering

(Accredited by NBA)



## Certificate of Appreciation

This is to certify that **Dr. Deepakkumar R**, Assistant Professor (Sr.) Grade-I, School of Mechanical Engineering, Vellore Institute of Technology (VIT), Vellore has given online webinar talk on “**CFD Application in Bluff Body Flow Analysis**”, in the Expert Webinar Series, Organised by the Department of Mechanical Engineering, Sri Venkateswara College of Engineering, Sriperumbudur on **1<sup>st</sup> August, 2020.**

Dr C Senthamaraikannan  
Coordinator

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Dr S Rameshbabu  
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# Webinar on CFD application in bluff body flow analysis -CERTIFICATE FORM

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Name of the Participant \*

Dr. P. Manimaran

Name of the College \*

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Place \*

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The information presented in the session was useful \*

	1	2	3	4	5	
Fair	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Excellent

The subject matter was presented effectively \*

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Strongly Agree

The duration of the session was sufficient to get an overview of the topic \*

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Strongly Agree

Overall Organisation of the International Webinar \*

	1	2	3	4	5	
Fair	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Excellent

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