



**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
**DEPARTMENT OF CIVIL ENGINEERING**



**Report of Webinar on**  
**“Smart Transit Stations in a Smart City”**

**26.08.2021**



# SRI VENKATESWARA COLLEGE OF ENGINEERING



## DEPARTMENT OF CIVIL ENGINEERING

### Report of Webinar on "SMART TRANSIT STATIONS IN A SMART CITY"

Date : Thursday, 26<sup>th</sup> August 2021

Time : 5:00 pm - 6:00 pm

Mode : Online through Google Meet

Meeting Link: Meeting URL: <https://meet.google.com/cbq-biaq-fuv>

#### Speaker

**Mr. Robert Versteeg**

Consultant

Smart City Consultants

Amsterdam, the Netherlands

#### Convenor

Dr.R.Kumutha, Professor & Head/Civil Engineering

#### Coordinator

Mr. G. Arun, Assistant Professor/ Civil Engineering

**Target Audience** : Students , Faculty members and Industry Personnel – 299 registered

#### Number of Participants submitted feedback :73

Students	: 45
Faculty	: 16
Others (research scholars, industry personnel, alumni)	: 12



Arun Gunasekaran CVE <garun@svce.ac.in>

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## Request for a webinar for college students on smart cities

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Arun Gunasekaran CVE <garun@svce.ac.in>

Wed, Jul 21, 2021 at 7:42 PM

To: Robert Versteeg <robert@smartcityconsultants.com>

Hello Sir,

Thank you for accepting my request.

Can we have the webinar on 6th August 2021 at 12:00 to 1:00 P.M. (GMT + 1) as per IST 4:30 to 5:30 P.M.

I also would like to have your photograph and profile about you.

[Quoted text hidden]



Arun Gunasekaran CVE &lt;garun@svce.ac.in&gt;

---

## Presentation Smart City Consultants | Sri Venkateswara College India

---

**Robert Versteeg** <robert@smartcityconsultants.com>  
To: Arun Gunasekaran CVE <garun@svce.ac.in>

Fri, Aug 6, 2021 at 3:24 PM

Dear Arun,

Thanks for reaching out once again. I hope this email will provide you will details to prepare the presentation for your group. See all information below:

*Biography:*

Robert Versteeg is a consultant at smart city consultants. He has a masters degree in Urban and Regional planning at the University of Amsterdam, the Netherlands. He specializes in the digitization of processes for the public sector. And has more than 8+ years experience in the design and implementation of smart city projects in The Netherlands and Europe.

*Presentation:*

Link via box: <https://app.box.com/s/38vdda2zqxt4l3urefs8tlc6vb5q33tu>

Hope this presentation will give you a good idea about the topics we can discuss. What I would like to present are the following topics:

1. What is smart city - feature + adv. & dis. using it in public domain (5-10min)
2. Case study 1 - Smart train station, Amsterdam netherlands (15-20min)
3. Case Study 2 (optional) - Smart mobility flows using limited data sensors, Yerevan, Armenia (15-20min)
4. Closing & questions (10-15min)

*Picture*

See attachment

Let me know what you think,

Kind regards,

Robert Versteeg  
Consultant

T +31-6-41111366 | E [robert@smartcityconsultants.com](mailto:robert@smartcityconsultants.com) | W [www.smartcityconsultants.com](http://www.smartcityconsultants.com) |  
[Nieuwezijds Voorburgwal 104 1012 SJ Amsterdam](https://www.google.nl/maps/place/Nieuwezijds+Voorburgwal+104,+1012+SZ+Amsterdam/@52.3585858,4.8358585,15z) | KvK 58805656



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329K

## BROCHURE



An Autonomous Institution – Affiliated to Anna University Pennalur, Sriperumbudur Tk. – 602117, TamiNadu

### Department of Civil Engineering

Cordially invites you for a

International Webinar on

## SMART TRANSIT STATIONS IN A SMART CITY



**Mr. Robert Versteeg**

Consultant at Smart City Consultants, Amsterdam

**26<sup>th</sup> August 2021**  
**5:00 pm (GMT+5:30)**

Register @ <https://forms.gle/HcKDU2Ufn91z572G7>

**Coordinator**  
**Mr. G. Arun**  
**AP/Civil Engineering**

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

**Convenor**  
**Dr. R. Kumutha**  
**HoD/Civil Engineering**



# Sri Venkateswara College of Engineering Department of Civil Engineering

Registration Form – International Webinar on " Smart Transit Stations in a Smart City"

Date : 26th August 2021,

Time: 5:00 pm,

Speaker: Mr. Robert Versteeg,

Consultant, Smart City Consultants, Amsterdam

---

**\* Required**

1. Name \*

---

2. Email \*

---

3. Name of the Institution/Industry/Organization \*

---

4. State and Country \*

---

## 5. Category \*

*Mark only one oval.*

- Student
- Research Scholar
- Faculty
- Industry Personnel
- Other: \_\_\_\_\_

## 6. Year (For student)

*Mark only one oval.*

- IV Year
- III Year
- II Year
- I Year
- Post Graduate

## 7. Designation (Faculty/Industry Personnel)

\_\_\_\_\_

## 8. Mobile number (Whatsapp) \*

\_\_\_\_\_

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Google Forms

## PROFILE OF THE SPEAKER



Robert Versteeg is a consultant at smart city consultants. He has a masters degree in Urban and Regional planning at the University of Amsterdam, the Netherlands.

He specializes in the digitization of processes for the public sector. He has more than 8 years experience in the design and implementation of smart city projects in The Netherlands and Europe. His work experience also includes project management, market intelligence, crowd management in smart city station.

### Brief Report of the Webinar

The webinar started with a welcome note by Mr.G.Arun, Assistant Professor, Civil Engineering, organiser of this program. He welcomed and gave a brief introduction about the speaker to the participants. The coordinator also mentioned that this topic is similar to a portion in a value added course on smart cities.

**Mr. Robert Versteeg**, Consultant, Smart City consultants started the presentation with a brief introduction about the smart cities. He covered the topics on what is smart city – features, advantages and disadvantages of using it in public domain, case studies on Smart train station, Amsterdam Netherlands and on Smart mobility flows using limited data sensors, Yerevan, Armenia.

The speaker highlighted the challenges in a smart transit station like the passenger safety, station layout, high volumes, black box and safety issues. A smart station basically keeps passengers safe using digital visualization of pedestrian flows in transport, take crowd management measure when necessary.

He also discussed on few case studies with challenges faced and the solutions. The examples included Station Breuelen, Milan Central, Metro Amsterdam, Amsterdam Central and Yerevan, Armenia.

The speaker concluded the session and answered all the queries from the participants. The student and faculty participants from host as well as other institutions participated in the webinar. The session ended with a vote of thanks delivered by Ms. Harshavarthani, second year student of Civil Engineering. The participants also appreciated the webinar being well organized.



## SNAPSHOTS DURING THE WEBINAR

This screenshot shows a Google Meet session in progress. The main video feed displays a man with a beard and mustache, wearing a light green shirt and white earbuds. A notification bubble at the bottom left of the video feed reads: "AMIT Kumar JHA was not allowed to join this meeting" and "Arun Gunasekaran CVE". A tooltip above the video feed says: "Are you talking? Your mic is off. Click the mic to turn it on." The bottom of the screen shows a control bar with icons for mute, video off, chat, hand raise, share screen, and end call. The time is 5:05 PM and the title is "International Webinar on Smart Transit Statio...".

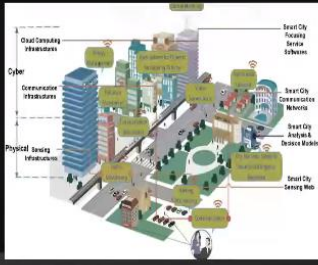
Participants list:

- Mr. Babu N
- PRIYADHARSHANI S ...
- Arun George
- Sumathi Ramesh
- dipak thakor
- RAJESH R CVE
- 48 others
- You

This screenshot shows a Google Meet session in progress. The main video feed displays a man with blonde hair, wearing a dark jacket over a yellow turtleneck. The bottom of the screen shows a control bar with icons for mute, video off, chat, hand raise, share screen, and end call. The time is 5:06 PM and the title is "International Webinar on Smart Transit Statio...".

Participants list:

- Mr. Babu N
- PRIYADHARSHANI S ...
- Arun George
- Arun Gunasekaran C...
- dipak thakor
- RAJESH R CVE
- 49 others
- You



# What is a smart City

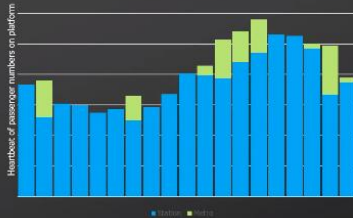
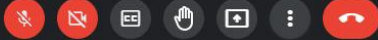
A smart city is defined as a city that engages its citizens and connects its infrastructure electronically. A smart city has the ability to integrate multiple technological solutions, in a secure fashion, to manage the city's assets (Musa 2016)

Main Features	Advantages	Disadvantages
Sensing Analysis	Performance Management	Privacy Security
Understanding Urban Processes/ city services	New services to citizens	Smart city washing

You

Robert Versteeg

66 others



# How it works

Digital visualization of pedestrian flows in transport stations and take crowd management measure when necessary.

<p><b>Sensors</b></p> <p>Partner with different technologies solutions from airport industry</p>	<p><b>Reporting</b></p> <p>Dashboarding and reports to support decision making</p>
<p><b>Tested</b></p> <p>Implemented by Dutch and Italian Railways, Metro Amsterdam.</p>	<p><b>Scalability</b></p> <p>Adding new stations is easy.</p>

You


Robert Versteeg

71 others



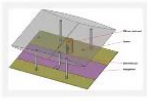
R Robert Versteeg is presenting

## Project Example Breukelen



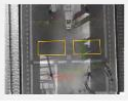
**Site visit**

Context station, Passenger numbers, type of station.




**Measurement plan**

What to put in it




**Validation sensors**

Importance validation



**Route choices**

Importance understanding route choices



**Waiting passengers**


Importance understanding building passenger no. for each platform square

NAME OR LOGO 10

5:25 PM | International Webinar on Smart Transit Statio...

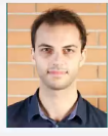
83

R Robert Versteeg is presenting




**Robert**

Smart City Consultant  
Msc. Urban Planning



**Gevorg**

Urban Data Scientist  
Phd. Spatial Data Science







**Simon**

Software & AI Consultant  
Msc. Artificial Intelligence

Smart City Consultants

# Thank You

-  Robert Versteeg
-  +31 6 411 11 366
-  Robert@smartcityconsultants.com
-  <https://smartcityconsultants.com>

NAME OR LOGO 19

You




Arun Gunasekaran CVE

R 77 others

88 PM | International Webinar on Smart Transit Statio...

80

Robert Versteeg is presenting





Robert  
Smart City Consultant  
Msc. Urban Planning

Gevorg  
Urban Data Scientist  
Phd. Spatial Data Science

Simon  
Software & AI Consultant  
Msc. Artificial Intelligence

Smart City Consultants

## Thank You


 Robert Versteeg  
 +31 6 411 11 366  
 Robert@smartcityconsultants.com  
 <https://smartcityconsultants.com>

NAME ON LOCK 19

79 others

Feedback link -

5:40 PM | International Webinar on Smart Transit Stati...



Robert Versteeg

You

Arun Gunasekaran CVE

79 others

In-call messages

Let everyone send messages

amitkumar jha 5:01 PM  
Hello everyone

RICHIN JOHN CHARLY CVE 5:03 PM  
Requesting the faculty to kindly record the meeting


Arif khan 5:27 PM  
Present

RICHIN JOHN CHARLY CVE 5:39 PM  
Is smart cities more dependant on the user ... or the cities or the places?

Shobha Dastapur 5:40 PM  
Is smart cities work without electricity or generators

Feedback link -

5:49 PM | International Webinar on Smart Transit Statio...



MOHD NAEEM HUSSAIN has left the meeting

HARSHAVARTHANI G CE

You

Arun Gunasekaran CVE

venkataramanaiah yp

56 others

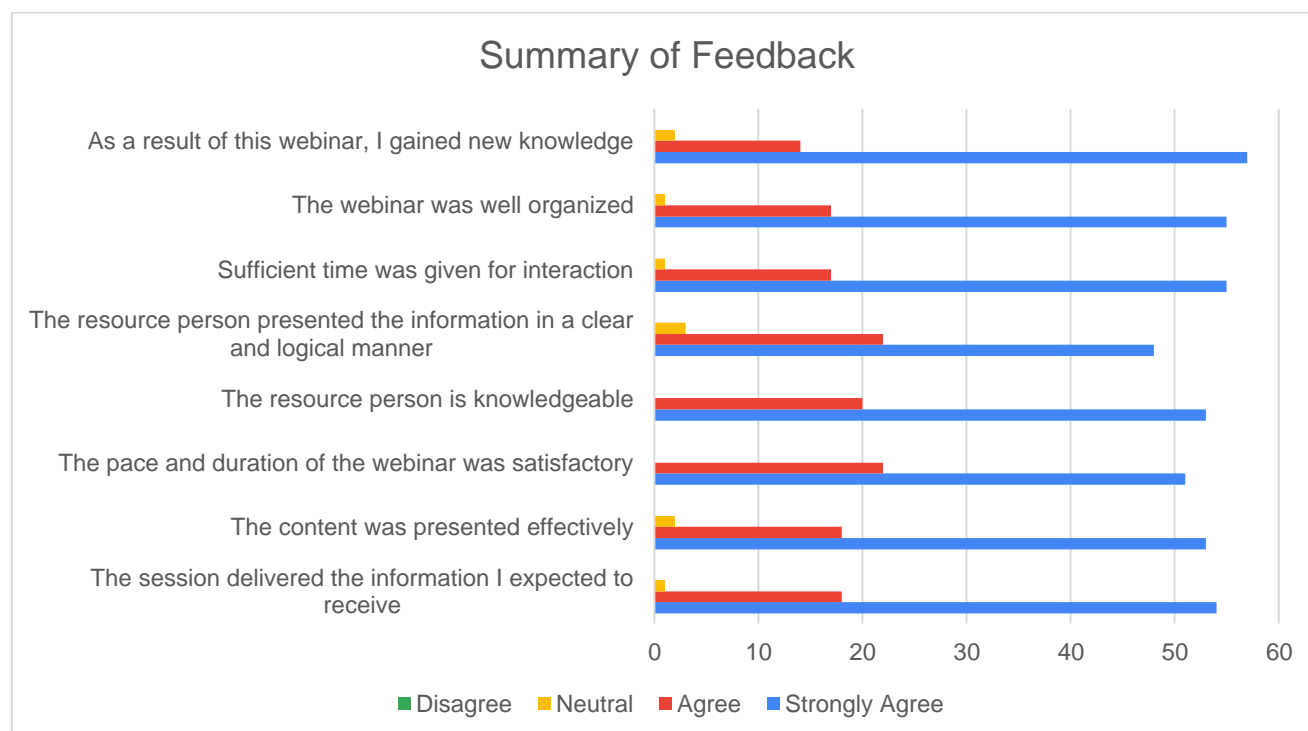
### List of participants

S.No.	Name	Name of the Institution/Organisation	Category
1.	Ruby Freya	Sri Venkateswara College Of Engineering	Faculty
2.	Rohan Lewis	Sri Venkateswara College Of Engineering	Student
3.	Mathiyazhagan R	SVCE	Faculty
4.	Pavan Kumar Varshney	Quantum University, Roorkee	Faculty
5.	Dr. L. K. REX	Individual	Individual
6.	V.Hariharan	Sri Venkateswara College Of Engineering	Student
7.	Mr.Subhendu Sahoo	Parala Maharaja Engineering College,Berhampur	Student
8.	T M Tilaq Rohith	Sri Venkateswara College Of Engineering	Student
9.	Babu N	Pollachi Institute Of Engineering And Technology	Faculty
10.	Wafula Peter	Landmac Engineering Services Limited	Industry Personnel
11.	A.Vijay Vignesh	Sri Venkateswara College Of Engineering	Faculty
12.	Suresh Parihar	Govt. Engineering College Bikaner	Student
13.	GogulaChezhiyan.N	Sri Venkateshwara College Of Engineering	Student
14.	Gajera Darshan Ashokbhai	Shantilal Shah Engineering College	Student
15.	Kalaivannan R	SVCE	Faculty
16.	Abhik Chowdhury	Siliguri Institute Of Technology	Student
17.	Ajay Kumar	Galaxy Global Group Of Institutions Dinarpur Ambala Haryana	Student
18.	S.P.Senthil Kumar	St.Joseph's College Of Engineering	Faculty
19.	Chiranjeevi B	Svce	Faculty
20.	Chaithra CV	Rajarajeshwari College Of Engineering	Graduate
21.	Bharanidharan. B	Sri Venkateswara College Of Engineering	Student
22.	Kashish Aggarwal	-----	Unemployed
23.	Vigneshwari M	Sri Ranganathar Institute Of Engineering And Technology	Student
24.	Diravia Balan S	Sri Venkateswara College Of Engineering	Faculty
25.	Indrajeet Upadhyay	Student	Student
26.	Nagarajan S	Ssn College Of Engineering	Lab Technician
27.	Sumathi Ramesh	Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya University	Faculty
28.	Anagha Mahesh	Gurudeva Institute Of Science And Technology	Student
29.	Laleeth Kumar D	Svce	Student
30.	Rajat Prakash	Aligarh Muslim University	Student
31.	Munesh Kumar	Royal Continental Construction Greater Noida	Industry Personnel
32.	Hariswaran S	Sri Venkateswara College Of Engineering	Faculty
33.	G.Saravanapandi	Sri Venkateshwara College Of Engineering	Student
34.	Dheeraj Gupta	Ggsipu	Aspirant
35.	ShiroyaBhautik P	Shantilal Shah Engineering Collage	Student
36.	Rajesh R	Sri Venkateswara College Of Engineering	Staff
37.	Ramanan.B.B	Sri Venkateswara College Of Engineering	Student

38.	Rohit V	Svce	Student
39.	Baraiya PankajbhaiParshotambhai	Shantilal Shah Engineering College	Student
40.	Jazlah Majeed Sulaiman	Saintgits College Of Engineering (Autonomous)	Student
41.	Vedhanayaghi VJ	Rajalakshmi Engineering College	Faculty
42.	A. K. M. ThohidulAlam Khan	Chittagong University Of Engineering And Technology (Cuet)	Research Scholar
43.	Kavinselva P	Sri Venkateswara College Of Engineering, Sriperumbudur	Student
44.	V.Naveenkumar	Kamaraj College Of Engineering And Technology	Student
45.	Keerthi Vaasan R	Sri Venkateswara College Of Engineering	Student
46.	Gokul K	Sri Venkateswara College Of Engineering	Student
47.	Hemalatha R	Sri Venkateshwara College Of Engineering	Student
48.	Sama Muhammad Atif A	Shantilal Shah Engineering College	Student
49.	B. Sarangan	Mohamed Sathak A.J College Of Engineering	Faculty
50.	Anish Kumar	Nsit Patna	Student
51.	Parmar Hardik Punabhai	Santilala Shah Engineering College	Student
52.	Ranjana Piriyaadharshini	Sri Venkateswara College Of Engineering	Student
53.	Dhilip Raj	Sri Venkateswara College Of Engineering	Student
54.	Gopinath A V	Svce	Student
55.	Paturu Sai Gangadhar Avula Reddy	GptRjpt	Student
56.	Nandhini.U	Sri Ranganathar Institute Of Engineering And Technology	Faculty
57.	Richin John Charly	Sri Venkateswara College Of Engineering	Student
58.	Ayush Ranjan	Netaji Subhas Institute Of Technology, Bihta, Patna	Student
59.	S.Priyadharshani	Sri Venkateswara College Of Engineering	Student
60.	Ar.ShobhaDastapur	PoojyaDr.Shivakumarji School Of Architecture	Faculty
61.	Er. Nilakantha Panda	Paradip Port Trust	Industry Personnel
62.	Rohit Kumar Rajak	Aravali Institute Of Technical Studies	Student
63.	Sarfaraj	Bteup	Student
64.	P. Venkateswara Rao	Sri Venkateswara College Of Engineering, Sriperumbudur	Faculty
65.	Asjad Imam	Edm Interior Decoration	Engineer
66.	J Dhanush Aurobindo	Sri Venkateswara College Engineering	Student
67.	John Rohan J	Sri Ranganathar Institute Of Engineering And Technology	Student
68.	Aslam Nizam Nadaf	Dypiet Pune	Student
69.	Mr. F. A. FAKIR MOHAMED	-	Student
70.	Mori SanjaykumarSureshbhai	Shantilal Shah Engineering College, Bhavnagar	Student
71.	Tushar MarotiGahane	MietGondia	Student
72.	Varsha Borkar	MIET SHAHAPUR BHANDARA	Ex Student
73.	Siddharth J U	Sri Venkateshwara College Of Engineering	Student

## SUMMARY OF FEEDBACK

Total Number of respondents: 73				
Feedback	Strongly Agree	Agree	Neutral	Disagree
The session delivered the information I expected to receive	54	18	1	-
The content was presented effectively	53	18	2	-
The pace and duration of the webinar was satisfactory	51	22	-	-
The resource person is knowledgeable	53	20	-	-
The resource person presented the information in a clear and logical manner	48	22	3	-
Sufficient time was given for interaction	55	17	1	-
The webinar was well organized	55	17	1	-
As a result of this webinar, I gained new knowledge	57	14	2	-



### Additional comments/feedback from participants:

- It was an excellent and informative session.
- Good topic and gained knowledge
- appreciate the effort, that your webinar is bringing the change in education system

# Sri Venkateswara College of Engineering Department of Civil Engineering

73 responses

Name of the Participant (as required in Participation Certificate)

73 responses

MORI SANJAYKUMAR SURESHBHAI

Sama Muhammad Atif A

Diravia Balan S

CHIRANJEEVI B

TUSHAR MAROTI GAHANE

JAZLAH MAJEED SULAIMAN

GAJERA DARSHAN ASHOKBHAI

Shiroya bhautik p

BARAIYA PANKAJBHAI PARSHOTAMBHAI





### Name of the Institution/Industry/Organisation

73 responses

Sri Venkateswara College of engineering

SVCE

Sri Venkateswara College of Engineering

Sri Venkateswara College of Engineering

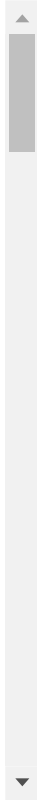
SHANTILAL SHAH ENGINEERING COLLEGE

SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sri Venkateswara college of engineering

SHANTILAL SHAH ENGINEERING COLLEGE, BHAVNAGAR

Shantilal Shah engineering College



## State and Country

73 responses

India

Tamil Nadu, India

Tamilnadu, India

MAHARASHTRA INDIA

Kerala, India

Tamil Nadu,India

Tamilnadu and India

Tamilnadu and India

Tamilnadu and india



### Email

73 responses

morisanjay04068@gmail.com

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chiranjeevi@svce.ac.in

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darshangajera1111@gmail.com

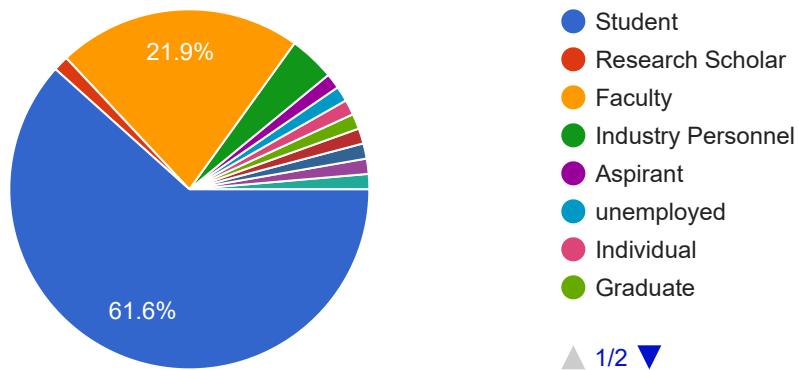
bhautikshiroya108@gmail.com

pankajb6006@gmail.com



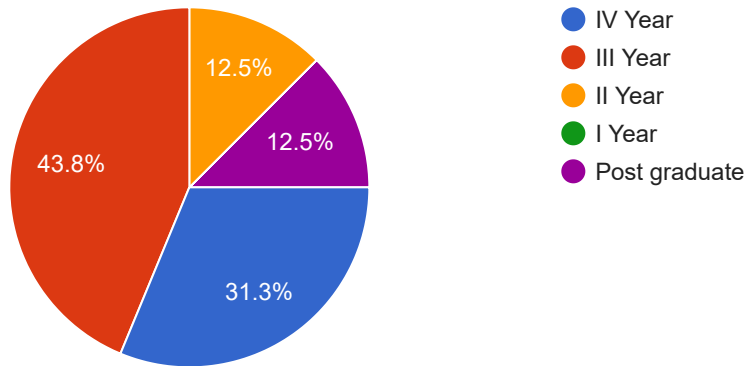
### Category

73 responses



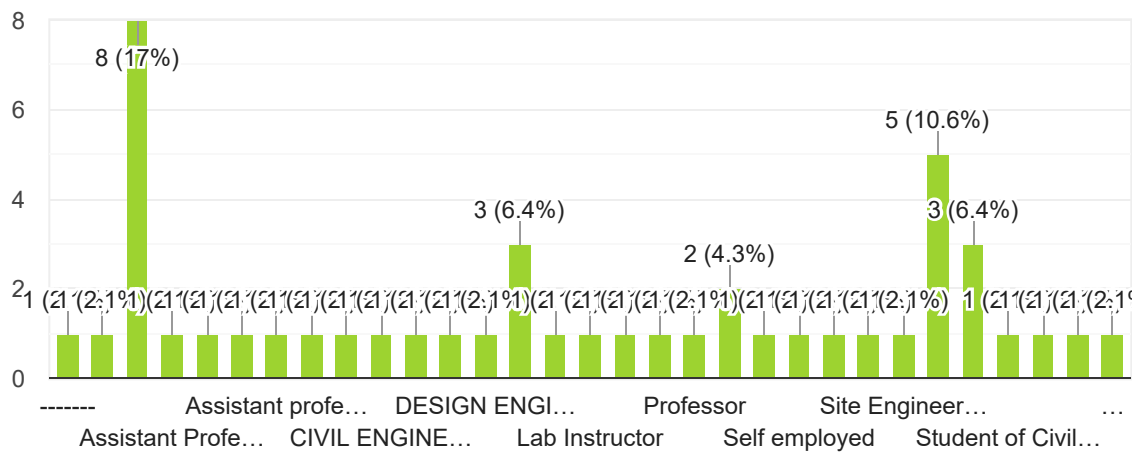
### Year (for student category)

48 responses



### Designation (Faculty / Industry Personnel)

47 responses



### Mobile number (Whatsapp)

73 responses

9664722427

8160869191

9710028434

9791106886

9822454919

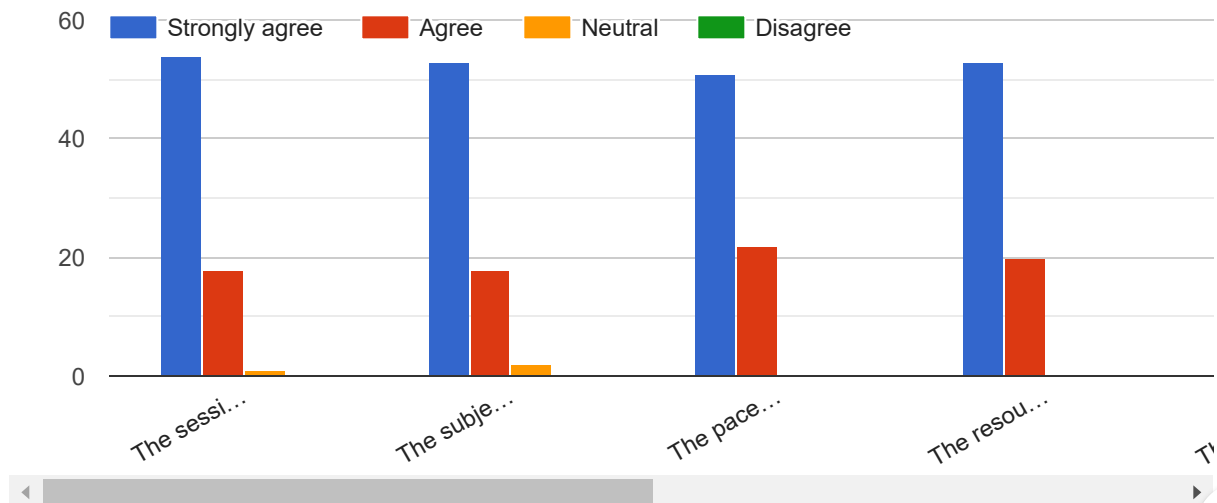
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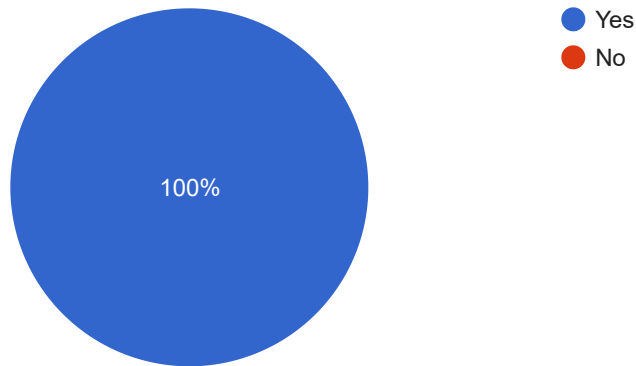
7046438295

Please rate your satisfaction with the organisation/content of the webinar by indicating your level of agreement or disagreement with each of the following statements.



Are you interested in attending such programs organised in future by the Department of Civil Engineering of SVCE

73 responses



### Additional Comments/Feedback

73 responses

Informative webinar

nice presentation

Thanks for the organisation of this type of webinar.

It's good for knowledge

Knowledgeable webinar, good give knowledge

Good and informative session

It was a truly informative and inspiring knowledge sharing session. Thank you very much.

Nice Session

I appreciate the effort, that your webinar is bringing the change in education system

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# Sri Venkateswara College of Engineering Department of Civil Engineering

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\* Required

**FEEDBACK - International Webinar on " Smart Transit Stations in a Smart City" Date : 26th August 2021, Time: 5:00 pm**

Thank you for your lecture. Please fill this feedback form.

1. Name \*

---

2. Email \*

---

3. Designation \*

---

4. Official Address \*

---

5. Mobile Number (whatsapp) \*

---

Please rate your satisfaction with the organisation of the guest lecture by indicating your level of agreement or disagreement with each of the following statements.



## 6. How satisfied were you with the event? \*

Mark only one oval per row.

	Strongly agree	Agree	Neutral	Disagree
Were the participants interactive?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is the mode (platform) for lecture was comfortable to use?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The guest lecture was well organized	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## 7. Are you interested in interacting with our institution in future ? \*

Mark only one oval.

Yes

No

## 8. Additional comments / feedback \*

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## Sample Certificate



SVCE  
Sri Venkateswara  
College of  
Engineering

Autonomous - Affiliated to Anna University  
Pennalur, Sriperumbudur, Tamil Nadu | [www.svce.ac.in](http://www.svce.ac.in)



IGBC

36 Years of Excellence

Department of Civil Engineering

**Certificate of Participation**

This is to certify that  
**Bharanidharan. B**

has participated in the **International Webinar on Smart Transit Stations in a Smart City**  
delivered by **Mr. Robert Versteeg**, Consultant at Smart City Consultants, Amsterdam, the Netherlands  
organized by the Department of Civil Engineering, Sri Venkateswara College of Engineering on **26<sup>th</sup> August 2021**.

**Mr. G. Arun**  
Assistant Professor / Civil Engineering  
Coordinator

**Dr. R. Kumutha**  
Professor & Head / Civil Engineering  
Convenor



Top Ranked Affiliated Institution in Tamil Nadu

5/5 tar Rated  
Innovation Cell

Recognized  
Incubation Center

Certified  
Organization

Prepared By  
  
**Mr.G.Arun (AP/Civil Engg.)**  
Coordinator

**ASSISTANT PROFESSOR**  
Department of Civil Engineering  
Sri Venkateswara College of Engineering  
Pennalur, Sri Perumbudur, Chennai

  
Approved By  
**Dr.R.Kumutha(HoD/Civil Engg.)**  
Convenor

Head of the Department  
Department of Civil Engineering  
Sri Venkateswara College of Engineering  
Sriperumbudur -602 117 INDIA