

**BEYOND THE CAMPUS
ENVIRONMENTAL PROMOTIONAL
ACTIVITIES**

Outreach Activities promoting Environment beyond the Campus

S. No.	Name of the Activity	Organizing Unit/ Agency/ Collaborating Agency	Date of the Activity	Number of Participants
1	One Day International Webinar on "Monitoring Systems on Photovoltaic Plants"	Department of EEE, Sree Vidyanikethan Engineering College, Tirupati	24-07-2021	Faculty and Students - 150
2	One Day Guest Lecture on "Solar Energy for Domestic Applications"	Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, Tirupati.	12-07-2021	Students-54
3	"Nature Photography Contest"	IGBC Sree Vidyanikethan Engineering College Student Chapter	01-07-2021	Students - 28
4	Staff Development Programme on "Rainwater Harvesting"	Department of Civil Engineering, Sree Vidyanikethan Engineering College, Tirupati.	26-06-2021	Staff - 07
5	A One Day National Level Webinar on "Power Electronics for Renewable Energy Application"	Department of EEE, Sree Vidyanikethan Engineering College, Tirupati	19-06-2021	Faculty and Students - 154
6	National Level Webinar on "Environmental Sustainability" organized to observe "The World Environment Day"	Social Entrepreneurship, Swachhta and Rural Engagement Cell (SESREC), Sree Vidyanikethan Engineering College, Tirupati.	05-06-2021	Faculty, Engineers and Students - 510
7	Online Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"	ASCE Sree Vidyanikethan Engineering College Student Chapter	30-05-2021	Students-18
8	AICTE-ISTE sponsored One Week Online Induction/ Refresher Programme on "Electric Hybrid Vehicle"- Phase-III	Department of EEE, Sree Vidyanikethan Engineering College, Tirupati	19-04-2021 to 24-04-2021	Faculty and Students - 92
9	75 th IIRS Outreach Programme on "Geoinformatics for Disaster Management"	Department of ECE, Sree Vidyanikethan Engineering College, Tirupati	05-04-2021 to 16-04-2021	Faculty and Students - 5
10	Debate on "Green Technologies: Pros and Cons"	IGBC Sree Vidyanikethan Engineering College Student Chapter	01-04-2021	Students - 44
11	Guest Lecture on "Organic Electronics and its Significance"	Department of ECE, Sree Vidyanikethan Engineering College, Tirupati	31-03-2021	Students - 141
12	Awareness Program on "Water Conservation" organized to observe "The World Water Day"	Social Entrepreneurship, Swachhta and Rural Engagement Cell (SESREC), Sree Vidyanikethan Engineering College, Tirupati.	22-03-2021	Students - 350 Faculty - 15

S. No.	Name of the Activity	Organizing Unit/ Agency/ Collaborating Agency	Date of the Activity	Number of Participants
13	AICTE-ISTE sponsored One Week Online Induction/ Refresher Programme on "Electric Hybrid Vehicle"- Phase-II	Department of EEE, Sree Vidyanikethan Engineering College, Tirupati	01-03-2021 to 06-03-2021	Faculty and Students - 85
14	AICTE Training and Learning (ATAL) Academy Online Faculty Development Programme on "Green Technology & Sustainability Engineering"	Department of EEE, Sree Vidyanikethan Engineering College, Tirupati	15-02-2021 to 19-02-2021	Faculty and Students - 161
15	AICTE-ISTE sponsored One Week Online Induction/ Refresher Programme on "Electric Hybrid Vehicle"- Phase-I	Department of EEE, Sree Vidyanikethan Engineering College, Tirupati	08-02-2021 to 13-02-2021	Faculty and Students - 100
16	Formal Inaugural of IGBC Sree Vidyanikethan Engineering College Student Chapter and A Guest Lecture on "Green Building Movement in India"	IGBC Sree Vidyanikethan Engineering College Student Chapter	28-01-2021	Students - 100 Faculty -18
17	An Awareness Program on "Safety Measures to Prevent COVID-19"	ASCE Sree Vidyanikethan Engineering College Student Chapter	31-12-2020	Students - 30 Faculty - 02
18	Virtual Field Visit on "Polavaram Irrigation Project - Andhra Pradesh"	ASCE Sree Vidyanikethan Engineering College Student Chapter	08-12-2020	Students-70
19	Three Day AICTE sponsored International E-Conference On "Energy, Control, Computing and Electronic Systems (ICECCES-2020)"	Department of EEE, Sree Vidyanikethan Engineering College, Tirupati	27-11-2020 to 29-11-2020	Faculty and Students - 50
20	Expert Lecture on "Energy, Efficiency and its Future"	Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, Tirupati.	29-10-2020	Students-90
21	Online Workshop on "Social Entrepreneurship, Swachhta and Rural Engagement"	Social Entrepreneurship, Swachhta and Rural Engagement Cell (SESREC), Sree Vidyanikethan Engineering College, Tirupati.	21-10-2020	Students - 164 Faculty -13
22	Online Expert Lecture on "Nanotechnology Enabled Water Filters: A Sustainable Way for Point-of-use Water Purification"	ASCE Sree Vidyanikethan Engineering College Student Chapter	15-10-2020	Students - 206 Faculty -18
23	Online Poster Presentation on "Sustainability in Civil Engineering"	ASCE Sree Vidyanikethan Engineering College Student Chapter	27-09-2020	Students - 19
24	A Three Day National Level Online Faculty Development Program on 'Sustainable Engineering'	Department of Civil Engineering, Sree Vidyanikethan Engineering College, Tirupati.	27-08-2020 to 29-08-2020	Students-184 Faculty-177 Practicing Engineers-12
25	A Three Day Virtual Expert Lecture Series on "Main Streaming Cross-Cutting Issues: Environment and Society"	SVEC IEEE Student Branch, Sree Vidyanikethan Engineering College, Tirupati.	11-08-2020 to 13-08-2020	Students - 101 Faculty - 43

S. No.	Name of the Activity	Organizing Unit/ Agency/ Collaborating Agency	Date of the Activity	Number of Participants
26	60 th IIRS Outreach Programme on "Application of Geoinformatics in Ecological Studies"	Department of ECE, Sree Vidyanikethan Engineering College, Tirupati	13-07-2020 To 24-07-2020	Faculty and Students - 32
27	70 th IIRS Outreach Programme on "Remote Sensing of Land Degradation"	Department of ECE, Sree Vidyanikethan Engineering College, Tirupati.	01-12-2020 to 07-12-2020	Faculty and Students - 5
28	Expert Lecture on "Sustainable Utilization of Scrap Tire Derived Geomaterials for Civil Engineering Applications"	IGS Sree Vidyanikethan Engineering College Student Chapter	21-05-2020	Students - 120 Faculty - 18
29	Six Week Entrepreneurship and Skill Development Programme on "Solar/Non-Conventional Energy Equipment Installation/Maintenance"	Entrepreneur Development Cell, Sree Vidyanikethan Engineering College, Tirupati.	17-02-2020 to 28-03-2020	Students - 30
30	An Outreach Program on "Road Safety Signage and Signs Awareness Campaign"	Department of Electrical and Electronics Engineering, Electrical Technical Association (ETA) in Collaboration with NSS Unit, Sree Vidyanikethan Engineering College, Tirupati.	26-02-2020	Students - 186 Faculty - 6
31	Distinguished Lecture on "Sustainable Engineering - Challenges and Applications" with a prelude on "Tomorrow's Professor - A Talent Mix of Teaching, Innovation and Networking"	Department of Civil Engineering, Sree Vidyanikethan Engineering College, Tirupati.	02-01-2020	Faculty - 200
32	An Outreach Program On "Energy Saving Campaign"	Department of Electrical and Electronics Engineering, Electrical Technical Association (ETA) in Collaboration with NSS Unit, Sree Vidyanikethan Engineering College, Tirupati.	22-10-2019	Students - 192 Faculty - 6
33	One Day Awareness Workshop on "Energy Conservation Building Code-2017"	Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, Tirupati.	22-07-2019	Students - 25 Faculty - 19
34	Outreach Activity – A Program on "Save the Mother Earth by avoiding Soil Pollution" at Kuchivaripalli Village, Chandagiri Mandal	NSS Unit in Collaboration with IGS SVEC Student Chapter, Sree Vidyanikethan Engineering College	04-10-2019	Students - 80 Faculty - 5
35	Awareness Program on Agriculture and Water Conservation	Unnat Bharat Abhiyan 2.0 in Collaboration with Center for Rural Development- SVET Scheme: Jal Sakthi Abhiyaan	06-09-2019 to 13-09-2019	Students - 200 Faculty - 5
36	Plantation Drive-One Student One Tree	NSS Unit, Sree Vidyanikethan Engineering College, Tirupati. Scheme: "One Student One Tree" Initiative by AICTE and JNTUA, Anantapuramu.	15-08-2019	Students - 300 Faculty - 10

S. No.	Name of the Activity	Organizing Unit/ Agency/ Collaborating Agency	Date of the Activity	Number of Participants
37	Awareness Program on Solid Waste Management	Unnat Bharat Abhiyan 2.0 in Collaboration with Center for Rural Development - SVET Scheme: UBA 2.0	05-08-2019 to 12-08-2019	Students – 250 Faculty - 3
38	World Environment Day	NSS Unit, Sree Vidyanikethan Engineering College, Tirupati. Scheme: Plant a Sapling and Take a Selfie Challenge	28-05-2019 to 05-06-2019	Students – 150 Faculty - 10
39	NSS Special Camping Programme	NSS Unit in Collaboration with C2F Connect 2 Farmer –NGO.	08-03-2019 to 14-03-2019	Students – 350 Faculty – 11
40	Outreach Activity – An Awareness Program on “Rainwater Harvesting” at Pullaiahgaripalli, Near A. Rangampet.	ASCE Sree Vidyanikethan Engineering College Student Chapter	22-12-2018	Students-30 Faculty-22 Villagers-40
41	Seminar Presentation Competition on “Solid Waste Management”	ASCE Sree Vidyanikethan Engineering College Student Chapter	31-07-2018	Students - 25
42	An Expert Lecture on “Sustainable and Smart Pavement Technologies – Visions for Future”by Dr. B. Krishna Prapoorna, Associate Professor, IIT Tirupati	ASCE Sree Vidyanikethan Engineering College Student Chapter	06-04-2018	Students - 430 Faculty -20
43	A Guest Lecture on “Sustainability in Civil Engineering” By Mr. A. T. Samuel, Director, STUP Consultants Pvt. Ltd, Bangalore	ASCE Sree Vidyanikethan Engineering College Student Chapter	17-03-2018	Students - 430 Faculty -20
44	NSS Special Camping Programme	NSS Unit, Sree Vidyanikethan Engineering College, Tirupati.	01-03-2018 to 07-03-2018	Students – 100 Faculty - 11
45	Swachh Pakhawad	Swachh Bharat Mission, Govt. of India.	13-08-2017	Students – 250 Faculty - 10
46	Vanamahosyathavam, Mass Tree Plantation	NSS Unit, Sree Vidyanikethan Engineering College, Tirupati. Scheme: Vanam-Manam, Govt. of A.P.	06-08-2017	Students – 300 Faculty - 10
47	Swachha Bharath Door to Door Campaign	NSS Unit, Sree Vidyanikethan Engineering College. Tirupati. Schem: Swaccha Bharath	10-03-2017	Students – 50 Faculty - 10
48	An extension activity on ‘Waste to Wealth Program” at Nagaiahgari Palli, Chandragiri Mandal.	Department of CE, Sree Vidyanikethan Engineering College, Tirupati.	20-08-2016	Students – 10 Faculty - 3
49	‘Vanamahotsavam Week’, Mass Tree Plantation	NSS Unit, Sree Vidyanikethan Engineering College, Tirupati. Scheme: Vanamahotsav	05-08-2016	Students – 100 Faculty - 10

S. No.	Name of the Activity	Organizing Unit/ Agency/ Collaborating Agency	Date of the Activity	Number of Participants
50	Outreach Programme on "Energy & Water Conservation in Agriculture Pumps" at Kotala Village, Chandragiri (M), Chittoor.	Department of EEE, Sree Vidyanikethan Engineering College, Tirupati.	08-06-2016	Students - 30 Faculty - 7
51	Swacch Bharat Abhiyan	NSS Unit, Sree Vidyanikethan Engineering College, Tirupati.	02-10-2015	Students - 45 Faculty - 5



PRINCIPAL
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)
Sree Salnath Nagar, A. RANGAMPET
Chittoor (Dist.) - 517 102, A.P., INDIA.



Sample Reports of the Events

International Webinar on

MONITORING SYSTEMS ON PHOTOVOLTAIC PLANTS

Resource Person

Dr. Siva Ramakrishna Madeti

Associate Professor, University of Santiago, Chile.



Digital Platform

Zoom



Date

24-07-2021



Venue

Online



Time

10:00 AM to 12:00 NOON

Convener:

Dr. Suresh Babu Daram

Associate Professor, Dept. of EEE, SVEC

Co-Convener:

Mr. U. Kamal Kumar

Assistant Professor, Dept. of EEE, SVEC

Coordinators:

Dr. E. Parimalasundar

Associate Professor, Dept. of EEE, SVEC

Mr. G. Om Suraj

Assistant Professor, Dept. of EEE, SVEC

NO REGISTRATION FEE

Registration Link

<https://forms.gle/ur8b1mjifh7Q29>



WHO CAN PARTICIPATE?

UG Students, PG Students,
Research Scholars and Faculty members



Organized By:

Department
of Electrical and Electronics Engineering

In Association With

Centre for Energy-SVEC under IEEE
Student Branch and ISTE Student Chapter

Follow us :   / iVidyanikethan

 / SreeVidyanikethanEngineeringCollegeOfficial



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati, Andhra Pradesh – 517 102. Tel: 0877-3066900 | www.vidyanikethan.edu

Department of Electrical and Electronics Engineering

We solicit your gracious presence on the occasion of

Inaugural Function

of

ONE DAY INTERNATIONAL WEBINAR

ON

“MONITORING SYSTEMS ON PHOTOVOLTAIC PLANTS”

in association with Centre for Energy-SVEC
under IEEE Student Branch and ISTE Student Chapter

24TH JULY 2021

Chief Guest

Prof. L. Venugopal Reddy

Advisor cum Director, SVET

Guests of Honor

Dr. B. M. Satish

Principal, SVEC

Dr. P. Giridhara Reddy

Director Academics &
Research, SVEC

Sri. B. Ravisekhar,

Director F & A, SVET

Dr. T. Nageswara Prasad

Vice Principal, SVEC

Dr. M. S. Sujatha

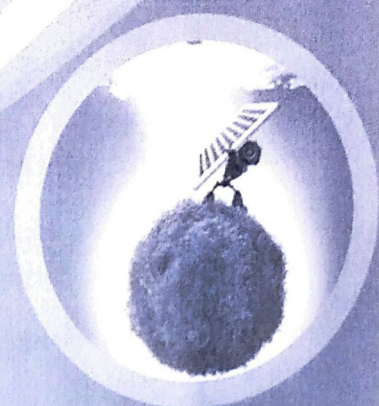
HoD, EEE

Dr. Suresh Babu Daram

Convener

Venue: Online Mode | Time: 10.00 A.M

Platform	Join with Zoom
Meeting link	https://zoom.us/j/98090292352?pwd=ZzEzMlh4SGtubGx1WkRQODJaU2N5Zz09 or Meeting ID: 980 9029 2352 Passcode: 20HFVD



ONE DAY GUEST LECTURE
ON
SOLAR ENERGY FOR DOMESTIC APPLICATIONS
DATE: 2-07-2021
TIME: 10 AM TO 11:30 AM

Resource Person

Dr.R.SENTHIL

Associate professor

Department of Mechanical Engineering,
SRM Institute of Science and Technology,
Chennai.

Certificates will be provided to all active participants

Registration Link

<https://forms.gle/Z2Bif3XPu6GVQMdH8>

Zoom I'd: **5221988130**

Passcode: **684980**

Coordinator

Dr.B.SACHUTHANANTHAN

Professor ,ME, SVEC, Tirupati,AP.

Department Level

NATURE PHOTOGRAPHY CONTEST



Digital Platform

Zoom

PMID: 2534978222

Passcode: 992175



Date

01-07-2021



Venue

Online

Convener:

Dr. O. Eswara Reddy

Professor, HoD and Chairman-BoS

Faculty Advisor – IGBC SVEC Student Chapter

Coordinator:

M. S. Yuvaraj

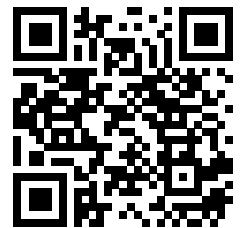
Coordinator – IGBC SVEC Student

Chapter Contact No: **9122325056**

NO REGISTRATION FEE

Submission link

<https://forms.gle/ozmLQXJ2WfQn1dbg6>



WHO CAN PARTICIPATE?

Students of I, II & III Year

B.Tech Civil Engineering from SVEC



- Rules to follow:**
- Only one entry is allowed per photographer.
 - Photograph taken should not be older than 3 months.
 - The photograph must be original and no watermark of any kind should be on the photograph.
 - The photograph must be of highest resolution possible. It can be in Landscape/Portrait mode.
 - Photographs that have been digitally altered beyond standard optimization (cropping, reasonable adjustments to exposure, color and contrast, etc.) will be disqualified.
 - A caption must be given for the photograph.

Organized By:

IGBC SVEC Student Chapter Department of Civil Engineering, SVEC

Follow us :



/ iVidyanikethan



/ SreeVidyanikethanEngineeringCollegeOfficial

Department: CIVIL ENGINEERING | Date: 01st July 2021

"Nature Photography Contest"
01st July 2021

The Department of Civil Engineering of Sree Vidyanikethan Engineering College has organized **"Nature Photography Contest"** under IGBC Sree Vidyanikethan Engineering College Student Chapter for Civil Engineering students on 1st July 2021. The objective of the program is to bring out the hidden talent of the students and their interest towards the photography.

A total 28 students from I, II and III B.Tech. Civil Engineering II Semester has participated in the event. The whole event was conducted with great zeal and enthusiasm. The contest was conducted online through Zoom platform from 12:30 pm to 01:30 pm. Dr. O. Eswara Reddy, Professor, HoD and Chairman-BoS, Department of Civil Engineering, SVEC, and Faculty Advisor-IGBC SVEC Student Chapter; Mr. M. S. Yuvaraj, Assistant Professor and Coordinator, IGBC SVEC Student Chapter were together observed and judged the entries on different criteria such as creativity, exposure and overall composition. Office barriers of IGBC SVEC Student Chapter were the organizers of this program.

On the whole, the event was proved successful. Mr. Kalluri Praneeth Kumar (II B.Tech. CE), Ms. M. R. Deepthi (III B.Tech. CE) and Mr. A. Charan Krishna (I B.Tech. CE) were awarded the First, Second and Third Prizes respectively. Also, participation certificates were distributed to all the participants.

The photographs of the event are as follows.

Photos - NATURE PHOTOGRAPHY CONTEST-Brochure

See all photos + Add to

Unmute Stop Video Security Participants 34 New Share Pause Share Annotate More

You are screen sharing Stop Share

SREE VIDYANIKETHAN
Engineering College
(Autonomous)

DEPARTMENT LEVEL
NATURE PHOTOGRAPHY CONTEST
01st July, 2021

Organized by:
IGBC SVEC Student Chapter
Department of Civil Engineering
SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous)
Sree Sainath Nagar, Tirupati, A.P. 517 102

Rules to follow:

- Only one entry is allowed per photographer.
- Photograph taken should not be older than 3 months.
- The photograph must be original and no watermark of any kind should be on the photograph.
- The photograph must be of highest resolution possible. It can be in Landscape/Portrait mode.
- Photographs that have been digitally altered beyond optimization (cropping, reasonable adjustments to exposure, color and contrast, etc.) will be disqualified.
- A caption must be given for the photograph.

Last Date for Submitting Photographs: 28-06-2021
Submission Link: <https://forms.gle/ozmLQXJWQnIdp6g>
You can also use QR Code for Submitting the Photographs.

Eligibility:

- All the students of I, II & III B.Tech Civil Engineering from SVEC are eligible to participate in the event.
- E-Certificate will be provided for all the participants.
- Winners will be announced on 01-07-2021 through Zoom Platform

Event Platform: Zoom

CHIEF PATRONS
Padmeshi Dr. M. Mohan Babu, Chairman, SVET
Sr. Vishnu Manchala, CEO, SVET

PATRON
Dr. B. M. Satish, Principal, SVEC

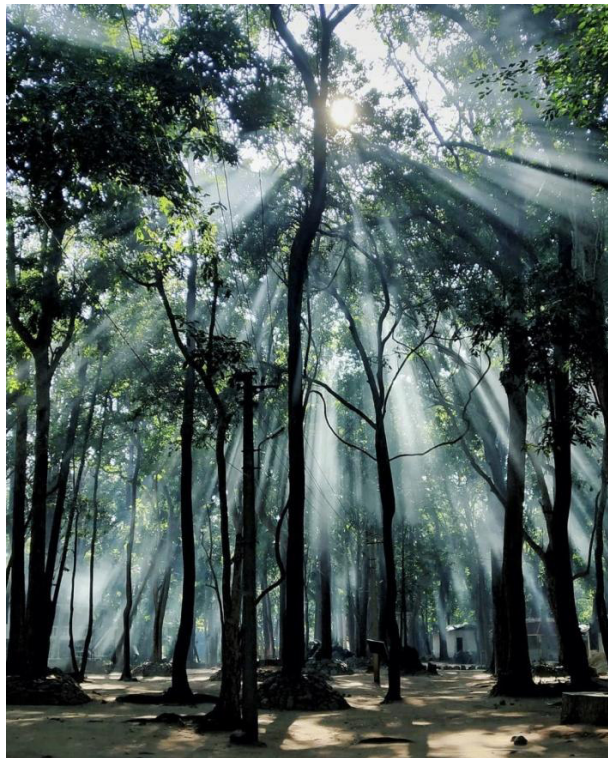
CONVENER
Dr. O. Eswara Reddy, HOD and Chairman-BoS, Dept. of Civil Engineering

CO-ORDINATORS
Mr. M. S. Yuvaraj, Assistant Professor, Dept. of Civil Engineering

Contact us:
M. S. Yuvaraj, Coordinator
IGBC SVEC Student Chapter
Contact No: 91223 25056

Yuvaraj M S
Dr. Eswara Reddy Ore...

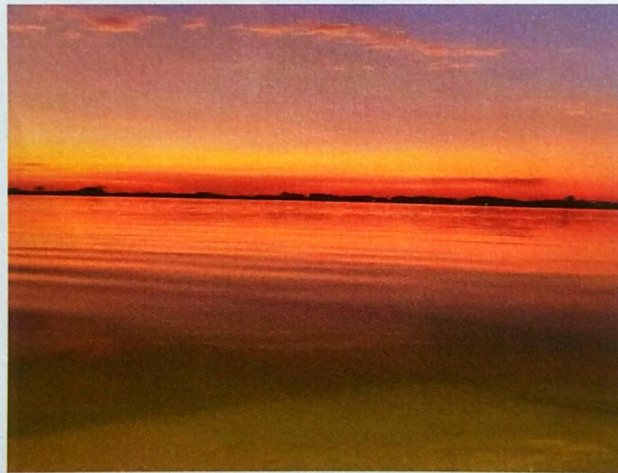
Dr. O. Eswara Reddy, Faculty Advisor, IGBC SVEC Student Chapter addressing the Students about the Photography Event



Photograph by Mr. Kalluri Praneeth Kumar of II B.Tech. CE which has Won the First Prize



*Photograph by Ms. M. R. Deepthi of III B.Tech. CE
which has Won the Second Prize*



*Photograph by Mr. A. Charan Krishna of I B.Tech. CE
which has Won the Third Prize*

01/07/2021
(Dr. O. Eswara Reddy)

Faculty Advisor

IGBC SVEC Student Chapter

Professor, HoD and Chairman-BoS

Department Level

NATURE PHOTOGRAPHY CONTEST



Digital Platform

Zoom

PMID: 2534978222

Passcode: 992175



Date

01-07-2021



Venue

Online

Convener:

Dr. O. Eswara Reddy

Professor, HoD and Chairman-BoS

Faculty Advisor – IGBC SVEC Student Chapter

Coordinator:

M. S. Yuvaraj

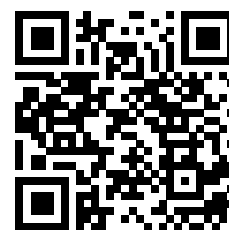
Coordinator – IGBC SVEC Student

Chapter Contact No: **9122325056**

NO REGISTRATION FEE

Submission link

<https://forms.gle/ozmLQXJ2WfQn1dbg6>



WHO CAN PARTICIPATE?

Students of I, II & III Year

B.Tech Civil Engineering from SVEC



- Rules to follow:**
- Only one entry is allowed per photographer.
 - Photograph taken should not be older than 3 months.
 - The photograph must be original and no watermark of any kind should be on the photograph.
 - The photograph must be of highest resolution possible. It can be in Landscape/Portrait mode.
 - Photographs that have been digitally altered beyond standard optimization (cropping, reasonable adjustments to exposure, color and contrast, etc.) will be disqualified.
 - A caption must be given for the photograph.

Organized By:

IGBC SVEC Student Chapter Department of Civil Engineering, SVEC

Follow us :



/ iVidyanikethan



/ SreeVidyanikethanEngineeringCollegeOfficial

Department: CIVIL ENGINEERING | Date: 01st July 2021

"Nature Photography Contest"

01st July 2021

The Department of Civil Engineering of Sree Vidyanikethan Engineering College has organized **"Nature Photography Contest"** under IGBC Sree Vidyanikethan Engineering College Student Chapter for Civil Engineering students on 1st July 2021. The objective of the program is to bring out the hidden talent of the students and their interest towards the photography.

A total 28 students from I, II and III B.Tech. Civil Engineering II Semester has participated in the event. The whole event was conducted with great zeal and enthusiasm. The contest was conducted online through Zoom platform from 12:30 pm to 01:30 pm. Dr. O. Eswara Reddy, Professor, HoD and Chairman-BoS, Department of Civil Engineering, SVEC, and Faculty Advisor-IGBC SVEC Student Chapter; Mr. M. S. Yuvaraj, Assistant Professor and Coordinator, IGBC SVEC Student Chapter were together observed and judged the entries on different criteria such as creativity, exposure and overall composition. Office barriers of IGBC SVEC Student Chapter were the organizers of this program.

On the whole, the event was proved successful. Mr. Kalluri Praneeth Kumar (II B.Tech. CE), Ms. M. R. Deepthi (III B.Tech. CE) and Mr. A. Charan Krishna (I B.Tech. CE) were awarded the First, Second and Third Prizes respectively. Also, participation certificates were distributed to all the participants.

The photographs of the event are as follows.

Photos - NATURE PHOTOGRAPHY CONTEST-Brochure

See all photos + Add to

Unmute Stop Video Security Participants 34 New Share Pause Share Annotate More

You are screen sharing Stop Share

SREE VIDYANIKETHAN
Engineering College
(Autonomous)

DEPARTMENT LEVEL
NATURE PHOTOGRAPHY CONTEST
01st July, 2021

Organized by:
IGBC SVEC Student Chapter
Department of Civil Engineering
SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous)
Sree Sainath Nagar, Tirupati, A.P. 517 102

Rules to follow:

- Only one entry is allowed per photographer.
- Photograph taken should not be older than 3 months.
- The photograph must be original and no watermark of any kind should be on the photograph.
- The photograph must be of highest resolution possible. It can be in Landscape/Portrait mode.
- Photographs that have been digitally altered beyond optimization (cropping, reasonable adjustments to exposure, color and contrast, etc.) will be disqualified.
- A caption must be given for the photograph.

Last Date for Submitting Photographs: 28-06-2021
Submission Link: <https://forms.gle/ozmLQXJWQnIdp6g>
You can also use QR Code for Submitting the Photographs.

Eligibility:

- All the students of I, II & III B.Tech Civil Engineering from SVEC are eligible to participate in the event.
- E-Certificate will be provided for all the participants.
- Winners will be announced on 01-07-2021 through Zoom Platform

Event Platform: Zoom

CHIEF PATRONS
Padmeshi Dr. M. Mohan Babu, Chairman, SVET
Sr. Vishnu Manchala, CEO, SVET

PATRON
Dr. B. M. Satish, Principal, SVEC

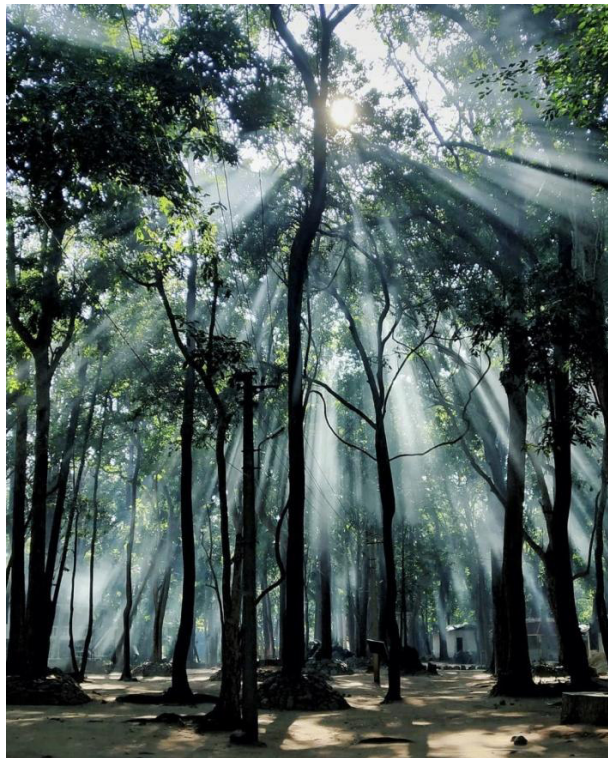
CONVENER
Dr. O. Eswara Reddy, HOD and Chairman-BoS, Dept. of Civil Engineering

CO-ORDINATORS
Mr. M. S. Yuvaraj, Assistant Professor, Dept. of Civil Engineering

Contact us:
M. S. Yuvaraj, Coordinator
IGBC SVEC Student Chapter
Contact No: 91223 25056

Yuvaraj M S
Dr. Eswara Reddy Ore...

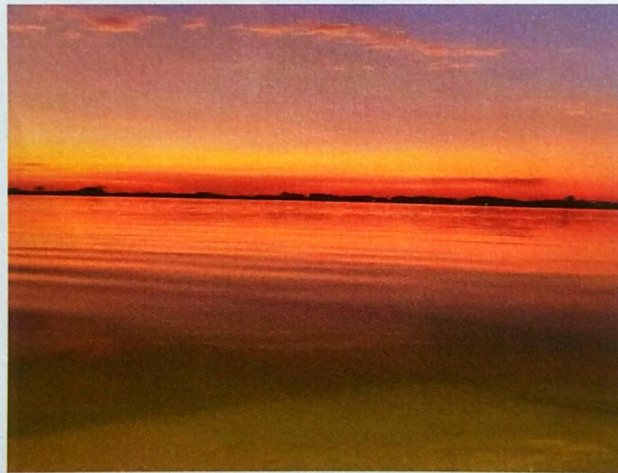
Dr. O. Eswara Reddy, Faculty Advisor, IGBC SVEC Student Chapter addressing the Students about the Photography Event



Photograph by Mr. Kalluri Praneeth Kumar of II B.Tech. CE which has Won the First Prize



*Photograph by Ms. M. R. Deepthi of III B.Tech. CE
which has Won the Second Prize*



*Photograph by Mr. A. Charan Krishna of I B.Tech. CE
which has Won the Third Prize*

01/07/2021
(Dr. O. Eswara Reddy)

Faculty Advisor

IGBC SVEC Student Chapter

Professor, HoD and Chairman-BoS

Department of Civil Engineering

Organizing

A One Day Staff Development Program

On

“Rainwater Harvesting”

Venue: Environmental Engineering Lab

Date & Time: 26-06-2021, 10:30 am

Department of Civil Engineering
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(Autonomous)
Sree Sainath Nagar, A. Rangampet – 517 102


***Staff Development Programme on
"Rainwater Harvesting"
26th June 2021***

The Department of Civil Engineering of Sree Vidyanikethan Engineering College organized a Staff Development Programme on **"Rainwater Harvesting"** on **26th June 2021**. The objective of the program is to share knowledge and experiences with the staff in the field of civil engineering in general and rainwater harvesting in particular. This program is helpful for the staff to understand different techniques of rainwater harvesting and making them aware of the advancements therein.

Dr. Hemadri Prasad Raju, Associate Professor, Department of Civil Engineering, SVEC was the resource person. He explained the importance and the need of rainwater harvesting through charts available at Environmental Engineering Lab, SVEC. He explained the ideas and knowledge on rainwater harvesting, various tools and techniques used for harvesting the rainwater to the staff in his lecture on "Rainwater Harvesting" in Civil Engineering Seminar Hall. Further, he emphasized the joy and proud of civil engineering and its applications to society and industry.

A total of **07** staff members from Civil Engineering from the host institution were participated in the training program. Dr. O. Eswara Reddy, HoD and Chairman - BOS, Department of Civil Engineering, SVEC and convenor of the event; Mr. M. S. Yuvaraj, Assistant Professor, Department of Civil Engineering, SVEC and coordinator of the event graced the occasion.

The photographs of the program are as follows.



SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)
Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuram, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)

Staff Development Programme on
"Rainwater Harvesting"

26 June 2021 (Saturday)

Organized by
Department of Civil Engineering

Eligibility:

- All the Non-Teaching Staff of Civil Engineering Department, SVEC are eligible to participate in the event.

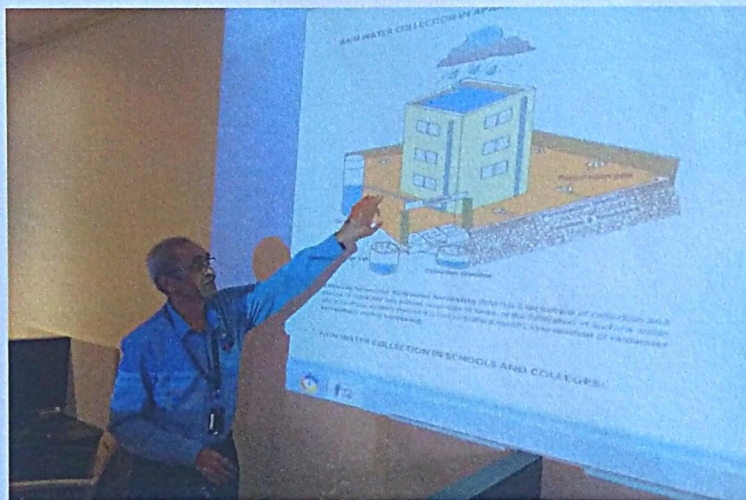
Programme Schedule:

- Introduction on Rainwater Harvesting
- Importance of Rainwater Harvesting
- Different techniques used

Expected Outcomes:

- The programme will focus on maximizing hands-on development of practical skill.
- This course orients the staff for a technology-rich future and keeps up with the change by adopting effective strategies that infuse lessons with appropriate technologies.
- The programme will promote conceptual clarity of importance of rainwater harvesting techniques amongst participants.

Event Banner



Dr. Hemadri Prasad Raju, Associate Professor, Dept. of Civil Engineering, SVEC explaining the Techniques of Rainwater Harvesting

(Signature)
26/6/2021

(Dr. O. ESWARA REDDY)

Professor, HoD and Chairman-BOS

Department of Civil Engineering, SVEC



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati, Andhra Pradesh – 517 102. Tel: 0877-3066900 | www.vidyanikethan.edu

Department of Electrical and Electronics Engineering

We solicit your gracious presence on the occasion of

Inaugural Function

of

ONE DAY NATIONAL LEVEL

WEBINAR

ON

**“POWER ELECTRONICS FOR RENEWABLE ENERGY
APPLICATIONS”**

In association with Centre for Energy-SVEC under IEEE Student Branch and ISTE Student Chapter

(19TH JUNE, 2021)

Chief Guest

Prof. L. Venugopal Reddy

Advisor cum Director, SVET

Guests of Honor

Dr. B. M. Satish

Principal, SVEC

Dr. P. Giridhara Reddy

Director Academics &
Research, SVEC

Sri. B. Ravisekhar,

Director F & A, SVET

Dr. T. Nageswara Prasad

Vice Principal, SVEC

Dr. M. S. Sujatha

HoD, EEE

Mr. G Ravindra

Convener

Venue: Online Mode | Time: 10.00 A.M

Joining info	Join with Zoom
	https://zoom.us/j/6598563333?pwd=V3NxMkpEU2tBVDJvQ2N5MUV2Wnd4dz09
Zoom	or Meeting ID: 659 856 3333 Passcode: 623325

“A One -Day National Level Webinar on Power Electronics for Renewable Energy Application”

in association with Centre for Energy-SVEC under IEEE Student Branch and ISTE Student Chapter held on 19th June 2021

REPORT

A One Day Online National Level Webinar on **POWER ELECTRONICS FOR RENEWABLE ENERGY APPLICATIONS**” was organized in association with Centre for Energy-SVEC under IEEE Student Branch and ISTE Student Chapter by Department of Electrical and Electronics Engineering, Sree Vidyanikethan Engineering College, Tirupati for the benefit of Research scholars and students and faculties of various department and various institutions.

The 189 participants who have enrolled for this Webinar and actively participated were 154 . The speaker of the session was Dr. B Chandra Sekhar, Technical lead Automotive division, TATA Consultancy services Limited, Bangalore. Who have trained the students and faculties of the webinar on 19-06-2021 virtually through Zoom platform between 10.00 am to 12.30 pm.

The session started with the welcome note by Dr.M.S.Sujatha and Mr.G.Ravindra, Convener of the webinar.



The main motto of the conduction of this one day webinar was to impart and share the knowledge on the power electronics in the renewable energy applications to the every one through the Industrial expert and to fill the gap between academic and industrial expertise.

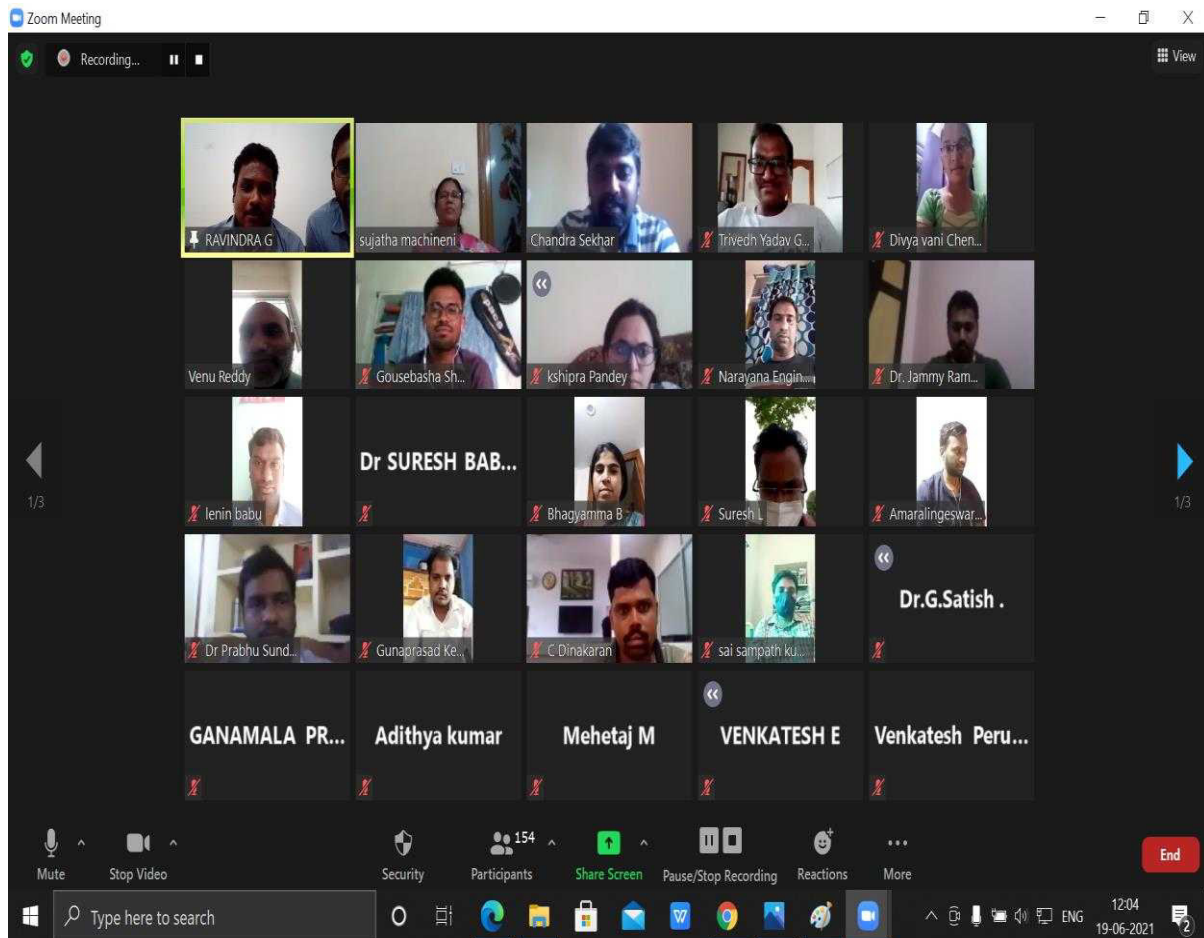
Now days the Power electronics plays a major role in achieving energy efficiency and sustainable development. Power Electronics is one of the most important components of modern grid applications and renewable energy systems. The increased efficiency and robustness of power semiconducting devices enable to improve many types of DC-DC, DC-AC, and AC-AC power conversion. The power converters and device topologies are improved in industrial, residential, commercial and many more specified areas to improve power system resiliency, flexibility, and reliability. On the other hand, electric vehicles and energy storage systems are widely integrated with renewable energy sources.

The objective of this webinar is to impart knowledge about emerging technologies and advanced design and modeling studies on the application of Power Electronics in Renewable Energy Systems and to bring together the expertise in renewable energy from industry and institutions to provide an interactive forum to discuss and exchange their visions, experiences, and solutions for up-scaling and mainstreaming renewable energy to achieve sustainable economic growth. The latest trends in power electronics technology for renewable energy systems will be dealt in depth.

The main objectives of the webinar are

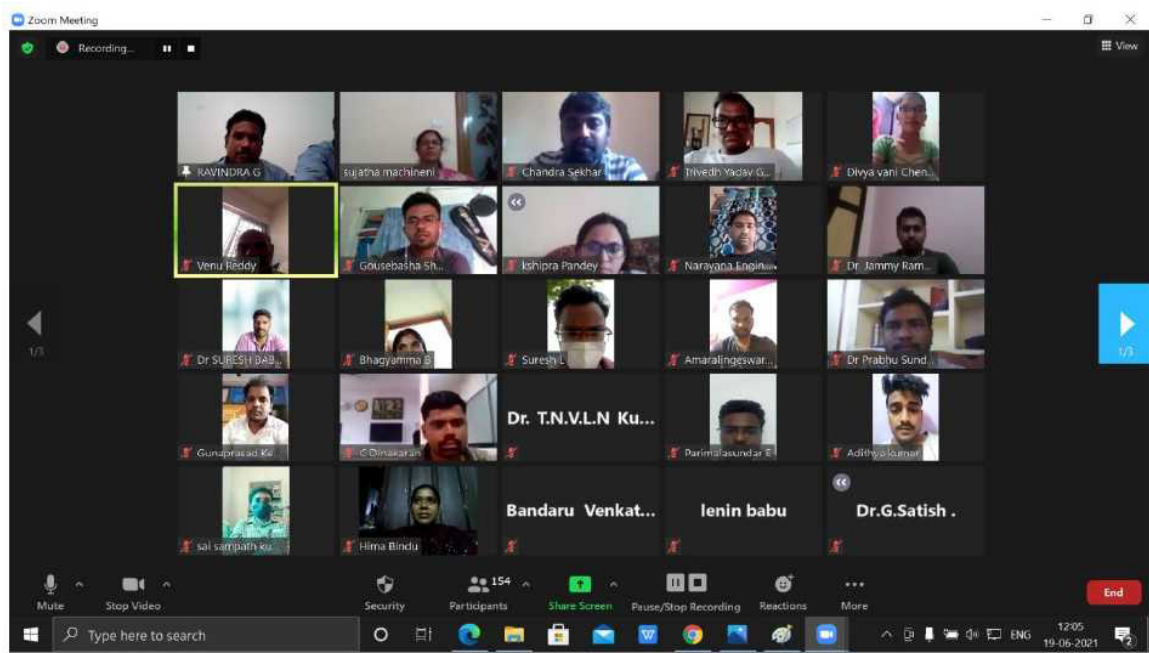
1. Power Electronics applications, for renewable energy applications
2. Solar Inverter: Design, Development, verification, and Validation
3. LED drivers: Design, Development
4. Hybrid Charger: Design, Development, verification, and Validation
5. Smart Grid applications
6. Novel challenges and Research Gaps

The speaker came from the eminent industry i.e Technical lead, Tata Consultancy services (TCS), Bangalore and he completed his Ph.D from the reputed institute CPRI, Bangalore, he has insightful knowledge on power electronics and implementation of power electronic converters in the renewable energy applications.



The resource person deliver the sequence of renewable energy applications as follows:

1. Discussed the importance of power electronics and applications of power electronics in the renewable applications.
2. Importance Inverter in the power system and explained effective the design of solar inverter, prototype development, verification and validation of the solar inverter in the real time approach.
3. Discussed the importance of LED driver in the lighting, its design, development and described the results with valid practical examples.



The resource Person also discussed

4. The importance of hybrid charger used in the electric vehicles, energy storage in the different electric power generation technologies used in the renewable applications & in hybrid energy systems. Also described the design of hybrid charger, development, verification and validation of hybrid charger with valid experimental results.
5. Now days we were using the smart technologies so the resource person also concentrated on the smart grid applications used in the present electrical engineering scenario and also the upcoming electrical grids are smart grids only.
6. Finally the speaker also concentrated on the novel challenges and the research gaps in the renewable energy applications.

Details of Speaker

Dr. B Chandra Sekhar,

Technical Lead Automotive Division,

TATA Consultancy Services Limited(TCS), Bangalore

M.S. Sy *ltha*
HOD, EEE

National Webinar on

ENVIRONMENTAL SUSTAINABILITY

Resource Persons

Dr. C. Velan,

City Head – Chennai Operations & Pan India Head for Property Management at Ascendas India (Capitaland India). Former CEO of Tata Realty Infrastructure Limited (TRIL), Chennai.

Dr. Anil Joseph,

Managing Director – CECONS (P) Ltd., Cochin Director – Geostructurals (P) Ltd., Cochin & Director – Engineers Diagnostic Centre (P) Ltd., Cochin



Digital Platform

Zoom &
Youtube Streaming



Date

05-06-2021



Venue

Online



Time

10:00 AM-12:00 PM

Coordinator

Dr. Hemadri Prasad Raju

Coordinator

Mr. G. Kuladeep

NO REGISTRATION FEE

Registration link

<https://forms.gle/z7Hmo96FtC5GSCkB6>



WHO CAN PARTICIPATE?

**Faculty, Staff
and Students**



Topics:

- Sustainability – Need of the hour
- Reimagine, Recreate and Restore

Organized By: SES-RE Cell

In Association With: NSS UNIT

Follow us :   / iVidyanikethan

 / SreeVidyanikethanEngineeringCollegeOfficial



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

SREE SAINATH NAGAR, TIRUPATI – 517 102,

NATIONAL LEVEL WEBINAR ON ENVIRONMENTAL SUSTAINABILITY **Organized to observe The WORLD ENVIRONMENT DAY on June 5th, 2021**

The Social Entrepreneurship, Swachhta and Rural Engagement Cell (SES & REC) in association with NSS Unit of Sree Vidyanikethan Engineering College has organized an online National webinar on "**ENVIRONMENTAL SUSTAINABILITY**" to create awareness on the said topic for the students and staff on **05-06-2021** from **10.00 am to 12.30** pm. Totally 510 members including students, faculty, non-teaching/admin staff from various institutions and few personnel from industries as well were participated in this webinar through Zoom platform and via you- tube live channel.

Dr. Hemadri Prasad Raju, Associate Professor/Dept. of Civil Engineering, Convener of Social Entrepreneurship, Swachhta and Rural Engagement Cell (SES REC), Sree Vidyanikethan Engineering College has started the proceedings with the welcome address (Figure 1). The Principal of Sree Vidyanikethan Engineering College, **Dr. B. M. Satish** has delivered an inaugural address and explained the Environmental Sustainability in a very crisp manner (Figure 2). Then, **Dr. M. M. Kesavulu**, Associate Professor, BS&H, Member, SES REC introduced the speaker of the program **Dr. Anil Joseph, Managing Director of CECONS (P) Ltd., Director of Geo structurals (P) Ltd., & Director of Engineers Diagnostic Centre (P) Ltd.**, Cochin, Kerala (Figure 3). The speaker started his presentation on the theme of 'World Environment Day' of the current year 2021 "**Reimagine, Recreate and Restore**" topic with an introduction to the Environmental issues currently the whole world is facing and the importance to safeguard the environment (Figure 4).

The Speaker showed how the nature in the form of Vetiver plant roots has created a system that helps in preventing the landslides (Figures 5 and 6). The

speaker also has played several fascinating videos of how creatures in the nature are far more superior Engineers and helping humans to design some of the Engineering models. One of the interesting video played by the speaker is how Beavers construct DAM's for their transportation needs (Figures 7, 8 and 9). In another video he showed how plant root systems stabilize slopes (Figure 10). Most inspirational among all the videos is clearance of plastic (cause of water pollution) near the beach at Mumbai. One Individual with his strong determination and love for the nature has cleaned the Versova beach, Mumbai (Figures 11 and 12). The speaker has answered all the queries by the participants for about 15 minutes (Figures 13 and 14) and the program was concluded with vote of thanks by **Mr. G. Kuladeep**, Assistant Professor, Department of Mechanical Engineering, Member, SES REC and Program Officer, NSS Unit, Sree Vidyanikethan Engineering College, to all those who are directly or indirectly involved in the successful completion of the program (Figure 15).

The participant summary and photographs of the program are as follows.

Participant Summary

Description of Participants	No. of Participants
Students	276
Faculty	222
Non Teaching/Admin	4
Industry	8
Total	510

The webinar link is <https://www.youtube.com/watch?v=AfXqQU2oiAI>



Figure 1: Dr. Hemadri Prasad Raju, Convener, Social Entrepreneurship, Swachhta and Rural Engagement Cell (SES REC), Sree Vidyanikethan Engineering College; Associate Professor, Department of Civil Engineering is welcoming the Participants and giving Welcome Speech



Figure 2: Dr. B. M. Satish, Principal, Sree Vidyanikethan Engineering College is giving Inaugural Address and also addressing the Participants during the Conductance of National Webinar on ENVIRONMENTAL SUSTAINABILITY to observe the WORLD ENVIRONMENT DAY on June 5th , 2021.

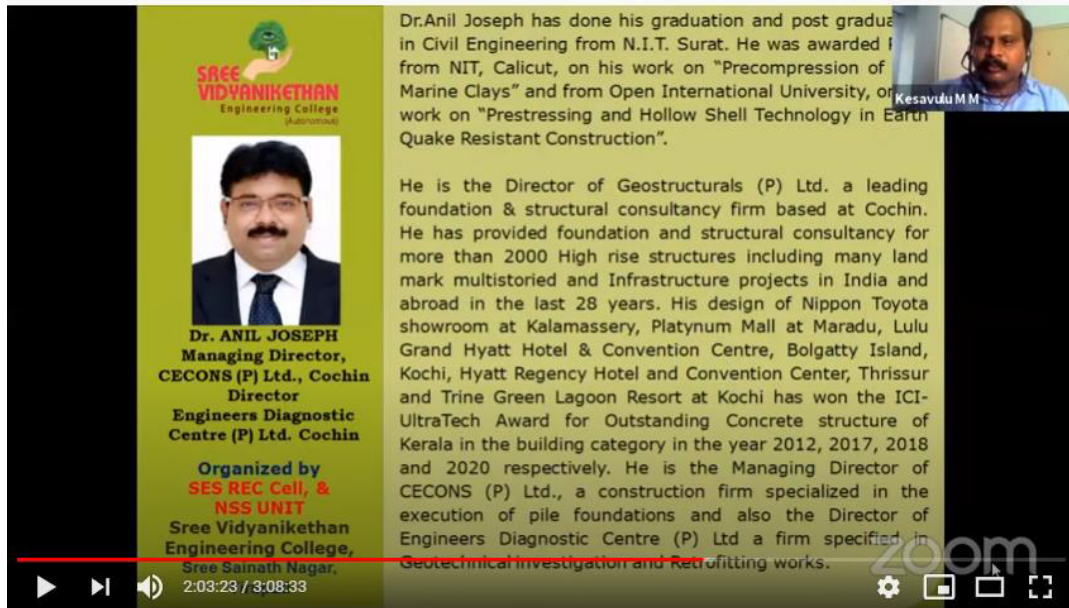
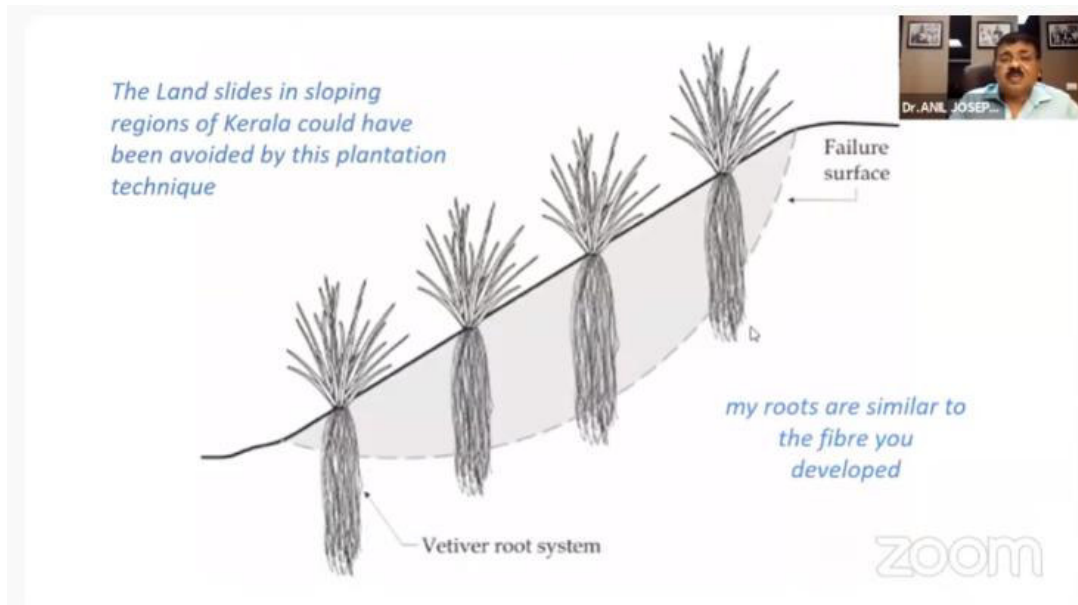


Figure 3: Dr. M. M. Kesavulu, Associate Professor, Dept. of BS&H and the Member of Social Entrepreneurship, Swachhta and Rural Engagement Cell (SES REC), SVEC is introducing the Eminent Speaker Dr. Anil Joseph, Managing Director of CECONS (P) Ltd., Cochin.



WEBINAR on ENVIRONMENTAL SUSTAINABILITY

Figure 4: Dr. Anil Joseph, Managing Director, CECONS (P) Ltd., & Director, Geostructurals Pvt. Ltd., Cochin is delivering a Lecture on “REIMAGINE, RECREATE, RESTORE” on the Occasion of the Celebration of the WORLD ENVIRONMENT DAY on 5th June 2021.



WEBINAR on ENVIRONMENTAL SUSTAINABILITY

Figure 5: Prevention of Landslides by Vetivare Plants (Its roots are deeply grown)



WEBINAR on ENVIRONMENTAL SUSTAINABILITY

Figure 6: Fibre Reinforced Compaction by The Plants



Figure 7: Dam Construction by Beaver



Figure 8: Dam Construction by Beaver

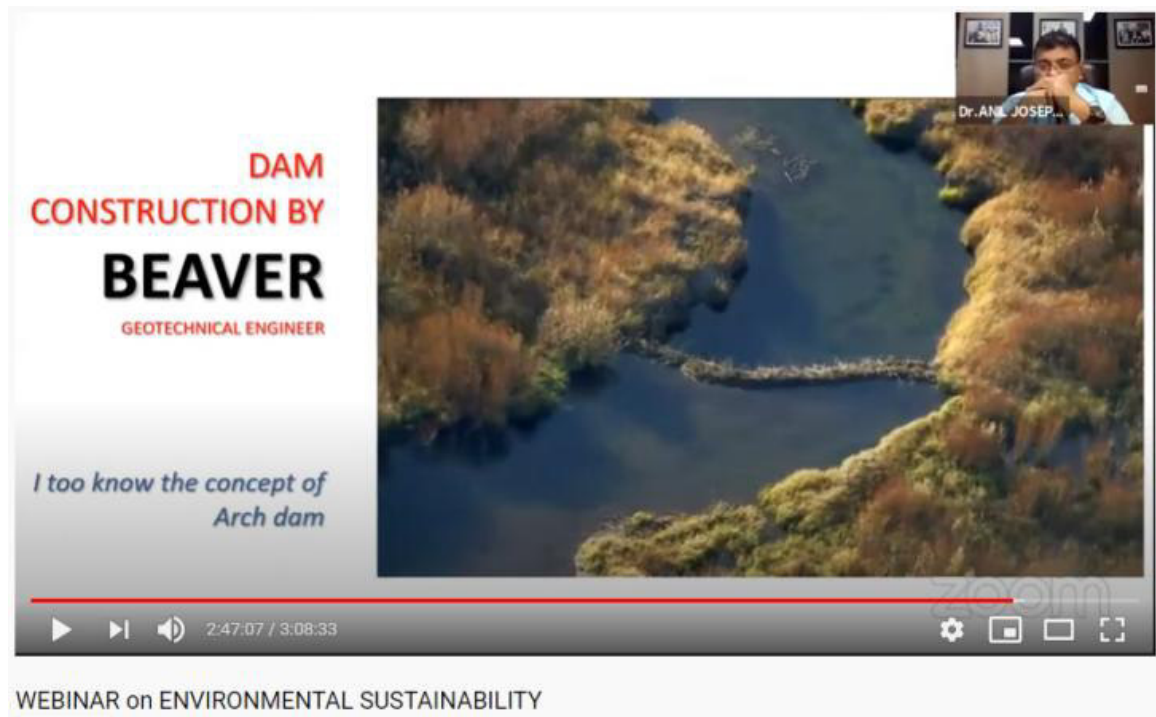


Figure 9: Dam Construction by Beaver



Figure 10: Root Systems Stabilizing the Slopes



Figure 11: Versova Beach, Before and After the Cleaning.



Figure 12: The Gentle Man Who Cleared Off Plastics with the Help of Local People at Versova Beach, Mumbai.



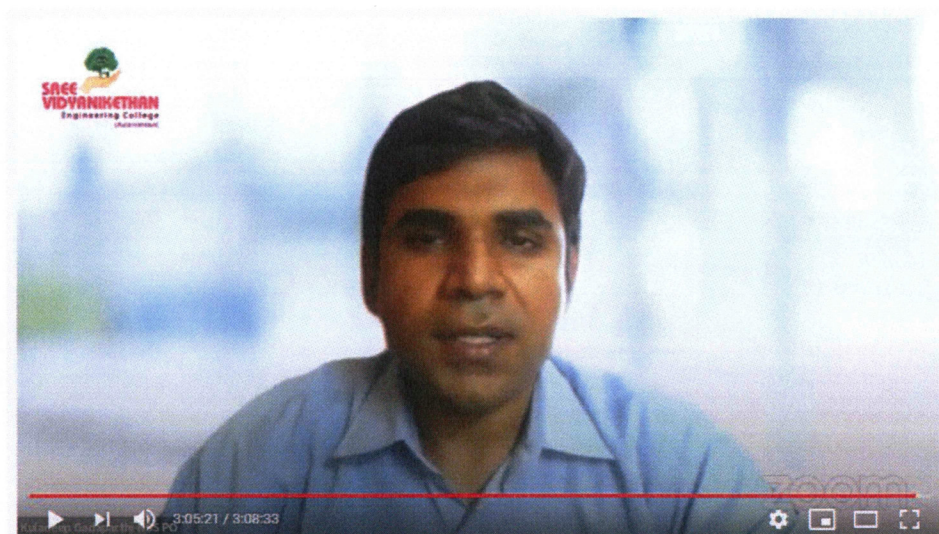
WEBINAR on ENVIRONMENTAL SUSTAINABILITY

Figure 13: Dr. Anil Joseph, Expert speaker during Question and Answer session



WEBINAR on ENVIRONMENTAL SUSTAINABILITY

Figure 14: Dr. Anil Joseph, Expert Speaker during Question and Answer Session



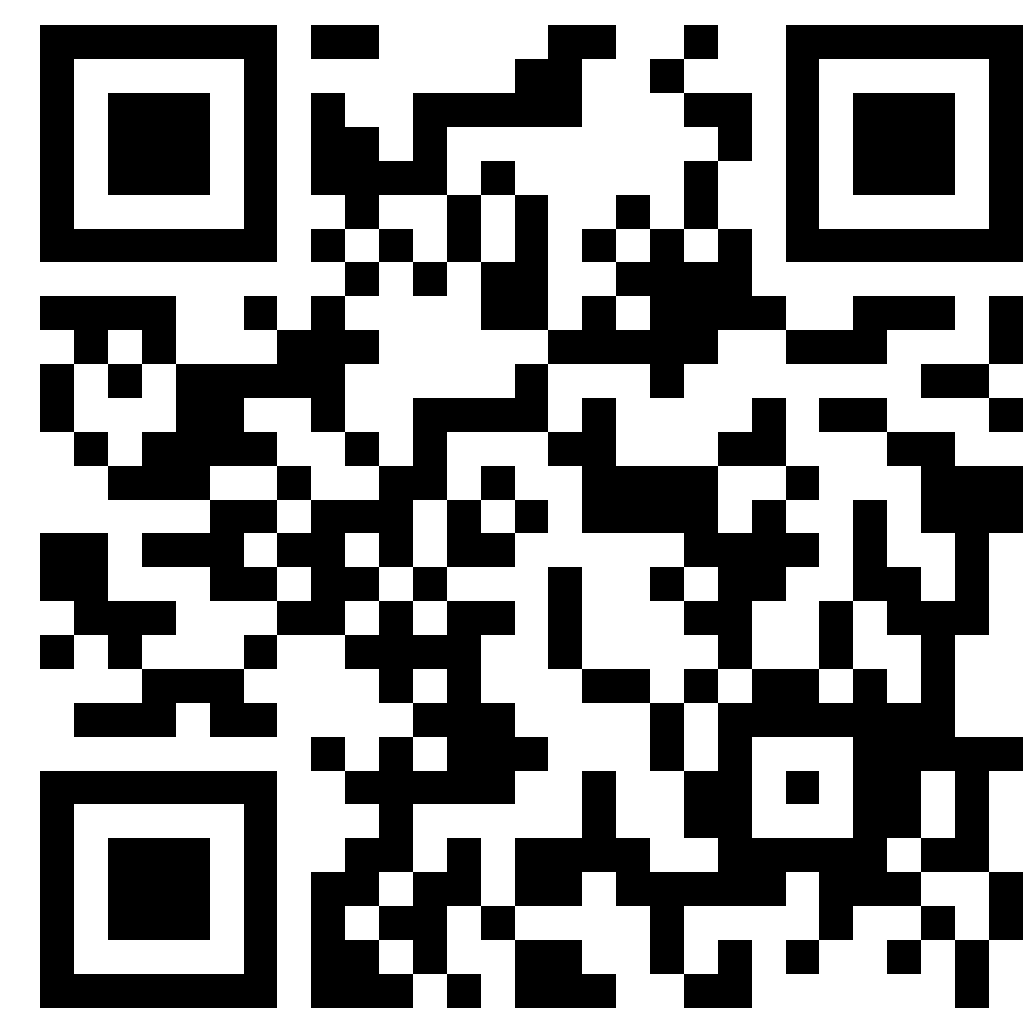
WEBINAR on ENVIRONMENTAL SUSTAINABILITY

Figure 15: Mr. G. Kuladeep, Coordinator, Social Entrepreneurship, Swachhta and Rural Engagement Cell, Sree Vidyanikethan Engineering College; Assistant Professor, Department of Civil Engineering is proposing vote of thanks on the occasion of National Webinar on ENVIRONMENTAL SUTAINABILITY

Mr. G. KULADEEP
Asst. Prof./ Dept. of ME
Member, SES REC & Programme Officer - NSS Unit.

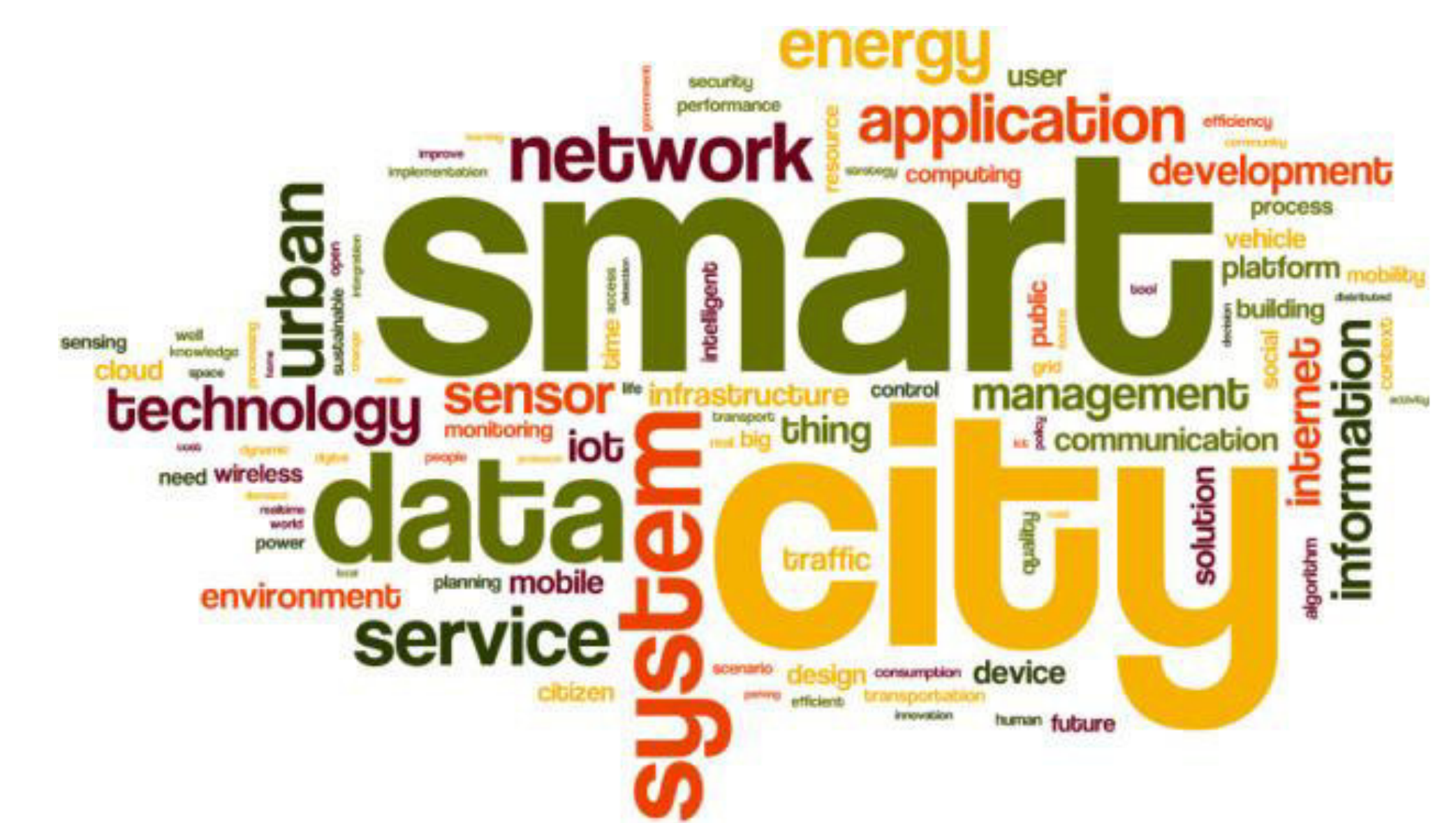
Dr. HEMADRI PRASAD RAJU
Assoc. Prof./ Dept. of CE
Convener, SES REC

Online Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"



May 30, 2021 (Sunday)

Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering



Last Date of Registration: 29-05-2021

Registration Link:

<https://forms.gle/Fs2u6KNWdBt914jPA>

Eligibility:

- All the students of B.Tech Civil Engineering from SVEC are eligible to participate in the event.

E-Certificates will be provided for all participants and Prize Winners

Contact us:

ASCE SVEC Office Bearers - 2021
asce@vidyanikethan.edu

Event Platform:



Rules to follow:

- The poster entry must have an impact on the topic.
- Each participant should submit one entry only.
- File Format: Save your file as a PDF for quick and easy upload.
- All Poster should be original work of participant and follow the given format.
- The following headings are suggested to structure your abstract, but you can amend as necessary – Introduction/Background, Methods, Findings, Conclusions.
- During the event, the maximum two participants in each team are given 7 minutes to present their poster and 3 minutes for queries.

Chief Patrons



Dr. M. Mohan Babu
Chairman, SVET



Sri. Vishnu Manchu
CEO, SVET

Patron



Dr. B. M. Satish
Principal, SVEC

Convener



Dr. O. Eswara Reddy
Faculty Advisor, ASCE SVEC Student Chapter
HoD and Chairman-BoS, Dept. of Civil Engg.

Coordinator



Mr. D. V. Purushotham
Coordinator
ASCE SVEC Student Chapter

Department: CIVIL ENGINEERING | Date: 30th May 2021

Online Poster Presentation on
"Civil Engineering Infrastructure for the Development of Smart Cities"
30th May 2021

The Department of Civil Engineering of Sree Vidyanikethan Engineering College has organized a Online Poster Presentation on **"Civil Engineering Infrastructure for the Development of Smart Cities"** under ASCE SVEC Student Chapter on 30th May 2021. The objective of the program is to motive and nurture the Poster Presentation skills and impart knowledge on Civil Engineering Infrastructure for the Development of Smart Cities.

A total of 18 students (04 individuals and 7 teams of each 2) from II, III and IV B.Tech. Civil Engineering I Semester has participated in the event. The whole event was conducted with great zeal and enthusiasm. The competition was conducted through **Zoom Platform** from 02:00 pm to 4:30 pm on 30th May 2021.

Dr. O. Eswara Reddy, Professor, Head, BOS Chairman, and Faculty Advisor - ASCE SVEC Student Chapter, Department of Civil Engineering, SVEC and Convener of the event addressed the gathering and motivated the participants; Mr. D. V. Purushotham, Assistant Professor, Coordinator-ASCE SVEC Student Chapter and Coordinator of the event are judged the participants on different criteria such as knowledge, presentation, demonstration, creativity and content. Office barriers of ASCE SVEC Student Chapter were the organizers of this program.

On the whole, the event has proved successful. The prize winners were judged purely based on subject knowledge and presentation skills. The **First Prize** to **Ms. Pallavi Nallaturu** of III B. Tech. CE-A; **Second Prize** to **Ms. Anupala Navya** of III B. Tech. CE-A and **Ms. Dasari Tejaswini** of II B. Tech. CE-B and **Third Prize** to **Ms. Shaik Arkat Mahamuda** and **Ms. Shaik Mahaboob Gouse Anisha** were awarded in poster presentation on "Civil Engineering Infrastructure for the Development of Smart Cities". Participation certificates were distributed to all the participants.

The students were enriched with knowledge on latest technologies used in the poster presentation. Further, it is believed that this event has ignited the young minds to learn and participate and to participate and learn.

The photographs of the event are as follows.



SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)



Online Poster Presentation on

"Civil Engineering Infrastructure for the Development of Smart Cities"



May 30, 2021 (Sunday)

Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering



Last Date of Registration: 29-05-2021

Registration Link:

<https://forms.gle/Fs2u6KNWd8t914jPA>

Eligibility:

- All the students of B.Tech Civil Engineering from SVEC are eligible to participate in the event.

E-Certificates will be provided for all participants and Prize Winners

Contact us:

ASCE SVEC Office Bearers - 2021
asce@vidyanikethan.edu

Event Platform:



Rules to follow:

- The poster entry must have an impact on the topic.
- Each participant should submit one entry only.
- File Format: Save your file as a PDF for quick and easy upload.
- All Poster should be original work of participant and follow the given format.
- The following headings are suggested to structure your abstract, but you can amend as necessary – Introduction/Background, Methods, Findings, Conclusions.
- During the event, the maximum two participants in each team are given 7 minutes to present their poster and 3 minutes for queries.

Chief Patrons



Dr. M. Mohan Babu
Chairman, SVET



Sri. Vishnu Manchu
CEO, SVET

Patron



Dr. B. M. Satish
Principal, SVEC

Convener



Dr. O. Eswara Reddy
Faculty Advisor, ASCE SVEC Student Chapter
HoD and Chairman-BoS, Dept. of Civil Engg.

Coordinator



Mr. D. V. Purushotham
Coordinator
ASCE SVEC Student Chapter

Event Brochure



SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)



Online Poster Presentation

on

"Civil Engineering Infrastructure for the Development of Smart Cities"



May 30, 2021
(Sunday)



Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering

Chief Patrons



Dr. M. Mohan Babu
Chairman, SVET



Sri. Vishnu Manchu
CEO, SVET

Patron



Dr. B. M. Satish
Principal, SVEC

Convener



Dr. O. Eswara Reddy
Faculty Advisor, ASCE SVEC Student Chapter
HoD and Chairman-BoS, Dept. of Civil Engg.

Coordinator



Mr. D. V. Purushotham
Coordinator
ASCE SVEC Student Chapter

Event Banner

Zoom Meeting You are viewing ASCE-Susmitha Akki-18121A0102's screen View Options

Recording Paused

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)
Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)

ASCE
STUDENT CHAPTER
Sree Vidyaniethan
Engineering College

Online Poster Presentation
on
"Civil Engineering Infrastructure for the Development of Smart Cities"
May 30, 2021 (Sunday)
Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering

Chief Patrons
Dr. H. Mohan Babu, Chairman, SVET
Sri. Vishnu Manchu, CEO, SVET

Patron
Dr. B. M. Satish, Principal, SVET

Convener
Dr. O. Eswara Reddy, Faculty Advisor, ASCE SVEC Student Chapter, Host and Chairman, Dept. of Civil Engg.

Coordinator
Mr. D. V. Parashantham, Coordinator, ASCE SVEC Student Chapter

asce

asce

ASCE-Susmitha Akki-18121A0102

Mute Start Video Security Participants 24 Chat Share Screen Resume/Stop Recording End

38°C Partly su... ENG 14:03

Ms. A. Susmitha, President of ASCE SVEC Student Chapter welcoming the Participants of Poster Presentation Competition

Zoom Meeting You are viewing ASCE-Susmitha Akki-18121A0102's screen View Options

Recording...

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)
Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)

ASCE
STUDENT CHAPTER
Sree Vidyaniethan
Engineering College

Online Poster Presentation
on
"Civil Engineering Infrastructure for the Development of Smart Cities"
May 30, 2021 (Sunday)
Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering

Chief Patrons
Dr. H. Mohan Babu, Chairman, SVET
Sri. Vishnu Manchu, CEO, SVET

Patron
Dr. B. M. Satish, Principal, SVET

Convener
Dr. O. Eswara Reddy, Faculty Advisor, ASCE SVEC Student Chapter, Host and Chairman, Dept. of Civil Engg.

Coordinator
Mr. D. V. Parashantham, Coordinator, ASCE SVEC Student Chapter

asce

asce

ASCE-Susmitha Akki-18121A0102

Mute Stop Video Security Participants 27 Chat Share Screen Pause/Stop Recording End

38°C Partly su... ENG 14:12

Ms. E. Sravani, Corresponding Secretary, ASCE SVEC Student Chapter welcoming the Dr. O. Eswara Reddy, Faculty Advisor of ASCE SVEC Student Chapter

Zoom Meeting You are viewing ASCE-Susmitha Akki-18121A0102's screen View Options

Recording... asce

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)
Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuram, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)

ASCE STUDENT CHAPTER
Sree Vidyaniethan Engineering College

Online Poster Presentation
on
"Civil Engineering Infrastructure for the Development of Smart Cities"
May 30, 2021 (Sunday)

Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering

Chief Patrons
Dr. H. Mohan Babu, Chairman, SVET
Sri. Vishnu Manchu, CEO, SVET

Patron
Dr. B. M. Sarith, Principal, SVET

Convener
Dr. O. Eswara Reddy, Faculty Advisor, ASCE SVEC Student Chapter
Head and Chairman, Dept. of Civil Engg.

Coordinator
Mr. D. V. Purushotham, ASCE SVEC Student Chapter

Dr. Eswara Reddy Orekanti

Mute Stop Video Security Participants Chat Share Screen Pause/Stop Recording End

Dr. O. Eswara Reddy, Professor, HoD and BOS Chairman & Faculty Advisor of ASCE SVEC Student Chapter addressing the Students

Zoom Meeting You are viewing ASCE_Y V Vinod Reddy's screen View Options

Recording Paused asce

19121A0116, 19121A0178
Poster Presentation on **ASCE SVEC Student Chapter** Date: 30.05.2021
"Civil Engineering Infrastructure for the Development of Smart Cities"
The Smart City: Challenges and their Solutions.
O.Monisha and C.Jyashna

Introduction
The application of Civil Engineering in the construction of smart infrastructure is the foundation for all the other key elements in a smart city like smart property, smart economy, smart living, smart governance and smart environment.
Smart cities optimize the use of technology in the design and operation of infrastructure in a way which saves the cost and future needs of the citizens.
Though smart cities have many advantages, we face few major challenges while designing and constructing them.

Challenges in Developing Smart Cities

- 1. Infrastructure:** The infrastructure involved in smart cities is very complicated and costly. Many supporting services are already displaced with existing facilities and infrastructure, such as underground wiring, more pipes and transportation tunnels.
- 2. Waste Management:** Smart cities require living conditions and opportunities which can lead to growth of population. This results in excess use of water and eventually leads to shortage of water resources.
- 3. Sewage and Waste Management:** As the population increases, waste and sewage problems also increase. Lack of proper waste management can cause major problems in the smart city's development.
- 4. Traffic and Transportation system:** As smart cities develop and population increases, traffic and transportation problems start to arise. If the transportation technologies are not considered, it can become a major problem to development.

Solutions to Overcome the Challenges

- 1. Smart Infrastructure:** Developers can use smart technologies by considering infrastructure problems at the very early stage of development. By integrating with the data and its analysis, the final implementation of the solution – developers can speed up the process of making our cities smarter by non-invasive hardware.
- 2. Smart Waste Management:** Smart waste management uses Information and Communication Technology (ICT) and real-time data and responses in an integral part of the solution for waste management challenges. The potential application of smart systems in waste management is to reduce and optimize solutions for waste quality, waste quantity, efficient collection, bins, landfill, incineration, etc.
- 3. Smart Water Management:** The current manual waste collection methods are highly resource intensive. With the usage of smart waste management systems, they can be replaced with self-driven collection systems. A city collection system using IoT to a centralized route on a regular basis and collect waste by sending an alert when using smart bins.
- 4. Smart Waste Management:** We can use smart waste management systems that reduce, recycle, reuse and optimize waste. Smart waste management systems reduce waste, which causes severe issues for any damages that may require attention.

Role of the Indian Government
The Indian government has started many schemes for the construction and development of smart cities like ASCEIT (Asia Pacific for Smart Cities and Urban Development), Smart City Mission, Smart City Development and Implementation Scheme (SDISAT), Smart City Mission, etc.
SDISAT (Smart City Mission) was launched by PM Narendra Modi on 25 June 2015.

Fig 1: Urban Data Program of Smart Cities Mission

Conclusion
Training the students in critical thinking and supporting them in developing an understanding of their role in global challenges is one part of their engineering education. Empowering problem-based learning approaches can be a great help.

ASCE-Susmitha...
ASCE Svec Vidyaniethan
ASCE Sravani
Dr. Eswara Reddy...
ASCE_Y V Vino...
19121A0178...
18121A0123-Ch...
19121A0116_C Jy...
20125A0122 - K...
20125A0121 PR...

Mute Stop Video Security Participants Chat Share Screen Resume/Stop Recording End

Mr. D.V. Purushotham, Coordinator of ASCE SVEC Student Chapter explaining the Instructions to Participants in Poster Presentation

Zoom Meeting You are viewing ASCE_Y V Vinod Reddy's screen View Options

Recording... 18121A0169 ASCE SVEC Student Chapter Date: 30.05.2021
Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"
SMART INFRASTRUCTURE FOR SMART CITIES
PALLAVI NALLATHURU

18121A0169 Pallavi

Mute Start Video Security Participants Chat Share Screen Pause/Stop Recording End

Participation by Ms. N. Pallavi of III B.Tech. CE II Semester

Zoom Meeting You are viewing ASCE_Y V Vinod Reddy's screen View Options

Recording... 18121a0101 18121a0123 ASCE SVEC Student Chapter Date: 29.05.2021
Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"
INTELLIGENT BUILDING

ASCE-Susmitha...
ASCE_Y V Vino...
18121a0101, Moha...
18121a0123-Chiru...

Mute Stop Video Security Participants Chat Share Screen Pause/Stop Recording End

Participation by Mr. Achakatla Mohammed Zahid and Ms. Chirutani Thejaswi of III B.Tech. CE II Semester

Recording... You are viewing ASCE_Y V Vinod Reddy's screen View Options

asce

18121A0170 ASCE SVEC Student Chapter Date: 30.05.2021
Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"
Building Integrated Photovoltaics

Introduction

Building integrated photovoltaics (BIPV) is the integration of photovoltaic (PV) into the building envelope. The PV modules serve the dual function of building skin-enclosing conventional building envelope materials and power generation by providing the cost of conventional materials, the increased cost of photovoltaics is reduced but in BIPV systems there are lower costs than PV systems requiring separate, dedicated, mounting systems.

Building Integrated Photovoltaic Products:

- BIPV full products:
 - Lightweight and flexible
 - Made from thin film cells
 - Low efficiency
 - Large solar resistance of thin-film cells
- BIPV full products:
 - Construction for mounting of roof
 - Electrically grounding
 - Module for as strongest panel of poly or semiconductor cells
- BIPV module products:
 - Similar to conventional PV modules
 - They are made with monocrystalline cells
- BIPV module products:
 - Thin film
 - Transparent thin film
 - Thin film
 - Thin film
- Solar cell panel products:
 - Transparent thin film
 - Thin film
 - Thin film
 - Thin film

Applications:

Introduction of BIPV in India:

In 2019, a project which made history in Mumbai, as the largest BIPV plant in India, and possibly the world, was announced. The first ever such project was announced for a data center owned by CMC Datacenter Ltd.

Existing, brand applications:

These PV products are fitted into a facade that is designed based on the specifications and have the panels mounted on them. These will have to be developed to maintain consistency with the view of the building and aesthetic consistency. Based on the amount of natural light required the panel can be placed.

Conclusion:

BIPV systems are architecturally closer. The initial installation cost efforts by reducing the amount of building materials and labor work. PV panels are mostly used, producing no noise or air, consequently they are a perfect solution for urban areas and for residential applications.

Mute Stop Video Security Participants 21 Chat Share Screen Pause/Stop Recording End

Participation by Ms. Pathikonda Prathyusha of III B.Tech. CE II Semester

Recording... You are viewing ASCE_Y V Vinod Reddy's screen View Options

asce

18121A0188.87 ASCE SVEC Student Chapter Date: 30.05.2021
Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"
OUR FUTURE HOME

GREEN ARCHITECTURE

- Green architecture
- Constructed with eco-friendly materials
- Design green roofs and green walls
- Energy efficiency
- Reduce global warming

SMART TRANSPORTATION

- Smart roads
- Reduce in energy consumption charges electric vehicles reduce heat and cool emissions
- ACCIDENTS are reduced
- Reduce accidents

SMART IDEAS

- Life is better if city is smart
- Transportation system to help people
- Use of smart devices
- Other users to exchange ideas for resources
- More houses
- Affordable housing for poor people
- Drill water saving pipes
- Minimize air pollution, reduce noise

SAFETY MEASURES

- Prevent theft and damage
- Safety during and after construction
- Experienced workers who have very knowledge for development
- Safety against natural disasters
- Reduce damage
- Safety against fire

SMART WATER SUPPLY & SEWERAGE SYSTEM

Data collection using sensor systems

Advanced data analysis

Smart water and wastewater treatment and management

- Control of energy (20%)
- It uses digital technology
- Open an interface with sensors
- It detects and measure flow levels
- Efficiency in water supply programs, collecting sewage increases
- Conserves water
- Separate sewage pipes for rain water and drainage water

EFFECTS

- Improve quality of life
- Reduce pollution
- They are environment friendly
- Improve efficiency
- Improve connectivity among citizens
- Improve transportation
- Reduce air pollution
- Reduce life cycle
- Less traffic, lower air
- Reduce cost of living
- Economic development
- Security
- Traffic reduction

Mute Stop Video Security Participants 20 Chat Share Screen Pause/Stop Recording End

Participation by Ms. Swetha Priya Gadikota and Ms. T. Manasa of III B.Tech. CE II Semester

Recording... You are viewing ASCE_Y V Vinod Reddy's screen View Options

asce

20125A0103 ASCE SVEC Student Chapter Date: 30.05.2021
Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"
SMART BUILDINGS INFRASTRUCTURE IN SMART CITIES
D. TEJASWINI

INTRODUCTION

- Smart buildings are among the largest investments in the modern economy. To achieve their full potential, they need to be designed, built, and operated in a way that maximizes their value to the owner and the user.
- Smart buildings are designed to be more efficient, more sustainable, and more resilient than traditional buildings. They are designed to be more efficient by using energy and resources more effectively. They are designed to be more sustainable by using green building practices and materials. They are designed to be more resilient by being able to withstand natural disasters and other threats.
- Smart buildings are also designed to be more comfortable and more productive for the people who work and live in them. They are designed to provide a better indoor environment, with better air quality, lighting, and sound. They are also designed to provide better security and safety for the people who work and live in them.

ENVIRONMENTAL BENEFITS OF SMART BUILDINGS

- Smart buildings can help reduce greenhouse gas emissions and other environmental impacts. They can do this by using energy and resources more efficiently. They can also help reduce the amount of waste and other pollutants that are generated by buildings.
- Smart buildings can also help improve the quality of the environment. They can do this by providing better air quality, lighting, and sound. They can also help reduce the amount of noise and other pollutants that are generated by buildings.

ADVANTAGES AND DISADVANTAGES OF SMART BUILDINGS

ADVANTAGES OF SMART BUILDINGS

1. Higher level of security and safety
2. Improved operational efficiency and cost savings
3. Better indoor environment
4. Increased energy and resource efficiency
5. Improved resilience and ability to withstand natural disasters and other threats
6. Better security and safety for the people who work and live in them
7. Better indoor environment

DISADVANTAGES OF SMART BUILDINGS

1. Increased complexity of systems
2. High initial cost
3. Potential for data breaches and other security issues
4. Potential for increased energy and resource consumption
5. Potential for increased noise and other pollutants
6. Potential for increased greenhouse gas emissions and other environmental impacts
7. Potential for increased waste and other pollutants

CONCLUSION

Smart buildings are the future of the built environment. They are designed to be more efficient, more sustainable, and more resilient than traditional buildings. They are also designed to be more comfortable and more productive for the people who work and live in them. Smart buildings can help reduce greenhouse gas emissions and other environmental impacts. They can also help improve the quality of the environment. Smart buildings are also designed to be more secure and more safe for the people who work and live in them. Smart buildings are the future of the built environment.

18121A0187 Sw...
18121A0188 M...
ASCE_Y V Vino...

Mute Stop Video Security Participants Chat Share Screen Pause/Stop Recording End

Participation by Ms. Dasari Tejaswini of II B.Tech. CE II Semester

Recording... You are viewing ASCE_Y V Vinod Reddy's screen View Options

asce

20125A0105, 20125A0121 ASCE SVEC Student Chapter
Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"
SMART GRID
AMERICAN SOCIETY OF CIVIL ENGINEERING

INTRODUCTION

Smart Grid is an electrical grid with Automation, communication and IT system that can monitor the power flow from the point of power plant to the point of consumers. And control the power flow to match the generation at real time.

- A smart grid with improve efficiency and two way communication.
- Smart grid is a network created through IT, Communication Technology and Electrical power system.

SMART METER

- Smart meter is the meter which supply and control the flow of electricity.
- Smart meter will collect the all data such as billing, service, monitor and planning of electricity flow.
- It will reduce the fluctuations and provide the constant supply of electricity.
- Smart meter divides a day in 2 types based on supply: 1. OFF PEAK 2. PARTIALLY PEAK 3. PEAK
- Smart meter try to reduce the consumption in peak hours.

RENEWABLE ENERGY RESOURCE

- AMR (Automated Meter Reading) is the present supply system where the supply of the electricity in one way direction.
- AMI is the supply applied to the smart grid system where the supply of the electricity in two way direction.
- By installing the Renewable energy resources like solar system or the tidal system, the excess amount of electricity after the utilization can be supply to the grid.
- By the two way system the loads on grid to be reduced.
- The AMI system is more economical and environmental.

COMPARISON

Existing Grid	Smart Grid
Electromechanical	Digital
One-way communication	Two-way communication
Centralized generation	Distributed generation
Few sensors	Sensors throughout
Manual monitoring	Self-monitoring
Manual restoration	Self-healing
Failures and blackouts	Adaptive and islanding
Limited control	Pervasive control
Few customer choices	Many customer choices

CONCLUSIONS

- Smart Grid is the smart way to transmit the power in controlled manner from generation unit to consumers point using modernized infrastructure that helps to improve efficiency, reliability, quality, and safety.
- Smart grid is also more economical when compare to the normal grid.
- Smart is also more eco-friendly too.

18121A0121 PRA...
ASCE-Susmitha...
20125A0105 @ R...
ASCE_Y V Vino...

Mute Stop Video Security Participants Chat Share Screen Pause/Stop Recording End

Participation by Mr. Gurram Ranganatha Teja and Kalluri Praneeth Kumar Reddy of II B.Tech. CE II Semester

Recording... You are viewing ASCE_Y V Vinod Reddy's screen View Options

Roll no: 20121A0191, 20121A0192

ASCE SVEC Student Chapter Date: 16.04.2021

Poster Presentation on **"Civil Engineering Infrastructure for the Development of Smart Cities"**

Infrastructure and its application

Introduction

- Smart city programs provide a range of technologies that can be applied to solve infrastructure problems associated with ageing infrastructure and increasing demands.
- The potential for infrastructure and urban improvement remains unrealized, however, due to technical, financial, and social constraints and criticisms that limit the implementation of smart cities concepts for infrastructure management.
- The smart technologies including sensors, crowd-sourcing and citizen science, actuators, data transmission, Internet of Things, big data analytics, data visualization, and blockchain, which can be used for infrastructure management.
- The civil engineering domains, including transportation systems, water systems, air quality, energy infrastructure, solid waste management, construction engineering and management, structures, and geotechnical systems.
- Gaps in the application of smart technologies for infrastructure systems are identified, and we highlight how the civil engineering professions can adopt new roles toward the development of smart cities applications.
- A "smart city" is one that has developed technological infrastructure that enables it to collect, aggregate, and analyze real-time data to improve the lives of its residents.

Importance of Transportation

- They play an important role in the economic, social and commercial development of the country.
- They help in cultural development of the country.
- They help in political development of the country.
- It plays a vital role in development of rural areas of the country.
- They improve the employment opportunities.
- Improves the contact between two countries.
- Improves the living standard of the country.
- It helps to improve science and technology.
- It helps in industrial development throughout the country.

Smart building

A smart building is any structure that uses automated processes to automatically control the building's operations including heating, ventilation, air conditioning, lighting, security and other systems. A smart building uses sensors, actuators and microchips, in order to collect data and manage it according to a business' functions and services. This infrastructure helps owners, operators and facility managers improve asset reliability and performance, which reduces energy use, optimizes how space is used and minimizes the environmental impact of buildings.

Smart water management

Real-time prediction of flooding is vital for the successful future operational management of the UK sewerage network. Recent advances in smart infrastructure and the emergence of the Internet of Things (IoT), presents an opportunity within the wastewater sector to harness and report in real-time sewer condition data for operation management.

Conclusion

Smart cities use data and technology to create efficiencies, improve sustainability, create economic development, and enhance quality of life factors for people living and working in the city. It also means that the city has a smarter energy infrastructure.

A smart city is an urban area that uses different types of electronic methods and systems to collect, aggregate, and analyze real-time data to improve the lives of its residents. Smart city technology allows city officials to interact directly with both community and city infrastructure and to monitor what is happening in the city and how the city is evolving.

A smart city uses information and communication technology (ICT) to improve operational efficiency, share information with the public and provide a better quality of government service and citizen welfare.

SMART WATER IRRIGATION SYSTEM

Smart irrigation systems are a combination of an advanced technology of sprinklers with nozzles that improve coverage and irrigation controllers that use weathering and water conservation systems that monitor moisture-related conditions on your property and automatically adjust watering to optimal levels.

Civil engineer play's an important role in development of smart cities

Participants: 13

Buttons: Mute, Stop Video, Stop Video (Alt+V), Security, Chat, Share Screen, Pause/Stop Recording, End

Participation by Ms. Shaik Arkat Mahamuda and Ms. Shaik Mahaboob Gouse Anisha of I B.Tech. CE II Semester

Recording... You are viewing ASCE-Susmitha Akki-18121A0102's screen View Options

ASCE

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JNTUA Anaparthi, Approved by ASCE, Accredited by NBA/NAAC with 'A' Grade)

Online Poster Presentation on

"Civil Engineering Infrastructure for the Development of Smart Cities"

May 30, 2021 (Sunday)

Organized by ASCE SVEC Student Chapter Department of Civil Engineering

Chief Patrons: Mr. D. V. Purushotham, Mr. V. Venkata Reddy

Patron: Dr. B. B. Suresh

Convener: Dr. C. Suresh Reddy

Coordinator: Mr. B. V. Suresh Reddy

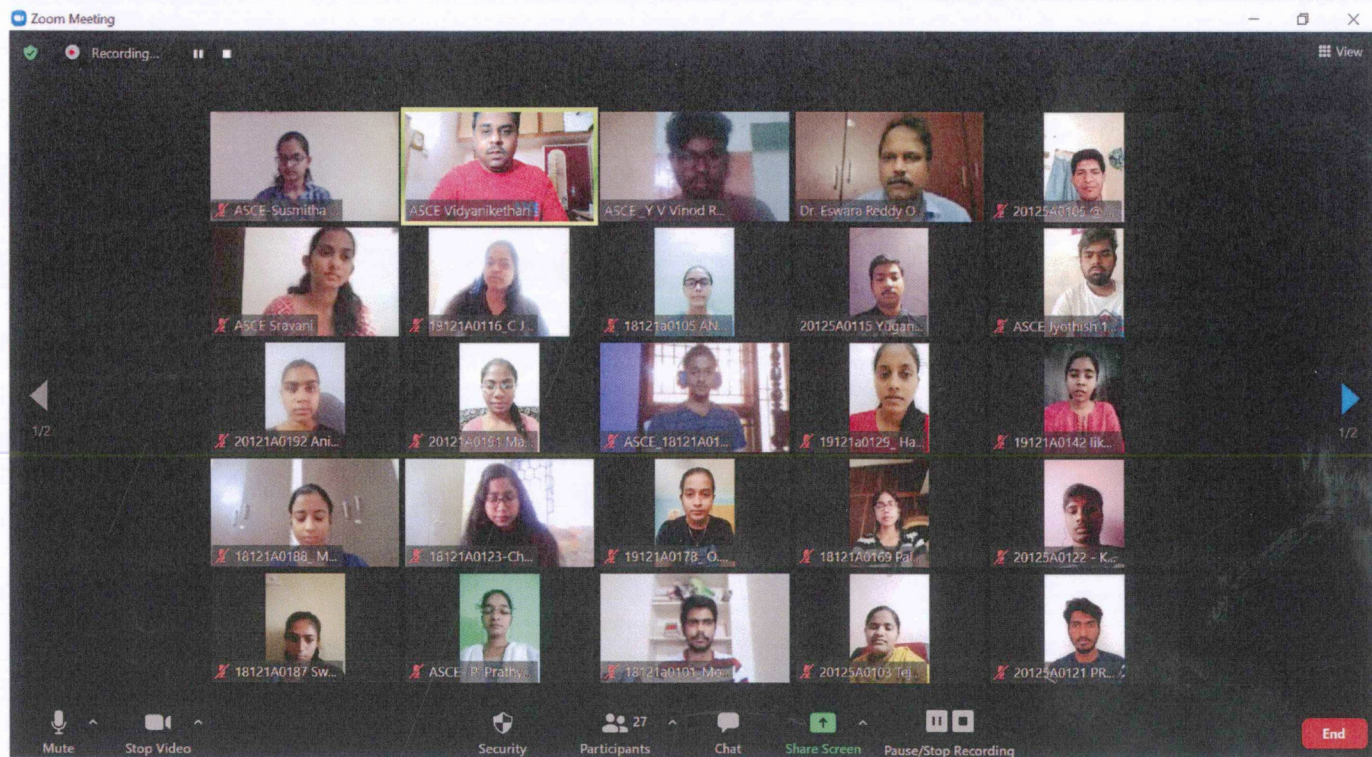
Participants: 8

Buttons: Mute, Stop Video, Security, Chat, Share Screen, Pause/Stop Recording, End

Grid of participants:

- ASCE-Susmitha Akki-181...
- ASCE Vidyaniethan
- ASCE Sravani
- 18121a0146--Charan
- ASCE-Shashanka
- ASCE SHAIK RAISUAL
- ASCE P. Prathyusha
- ASCE_Y V Vinod Reddy

Mr. D.V. Purushotham, Coordinator of ASCE SVEC Student Chapter announcing the Prize Winners of Poster Presentation



A Group Photograph with all Participants in Poster Presentation Competition

28/06/2021

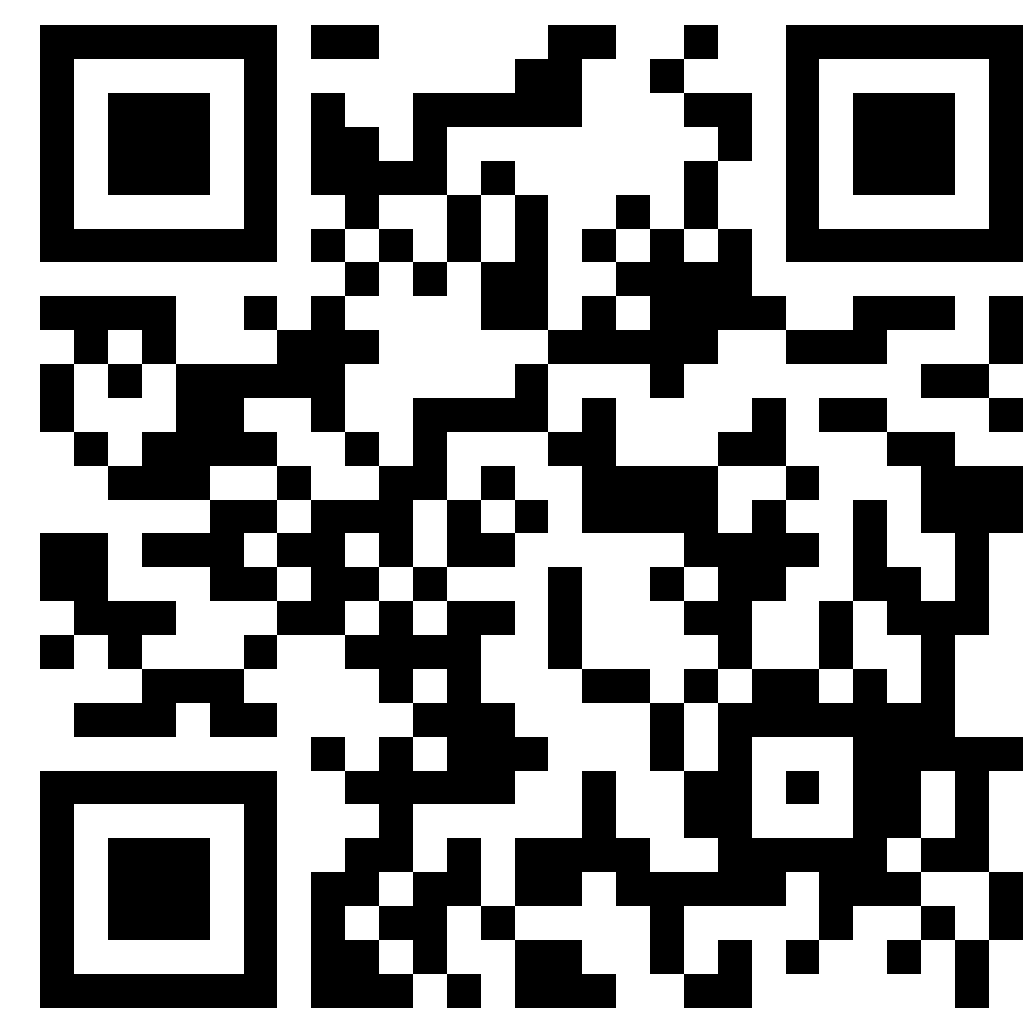
(Dr. O. ESWARA REDDY)

Faculty Advisor

ASCE SVEC Student Chapter

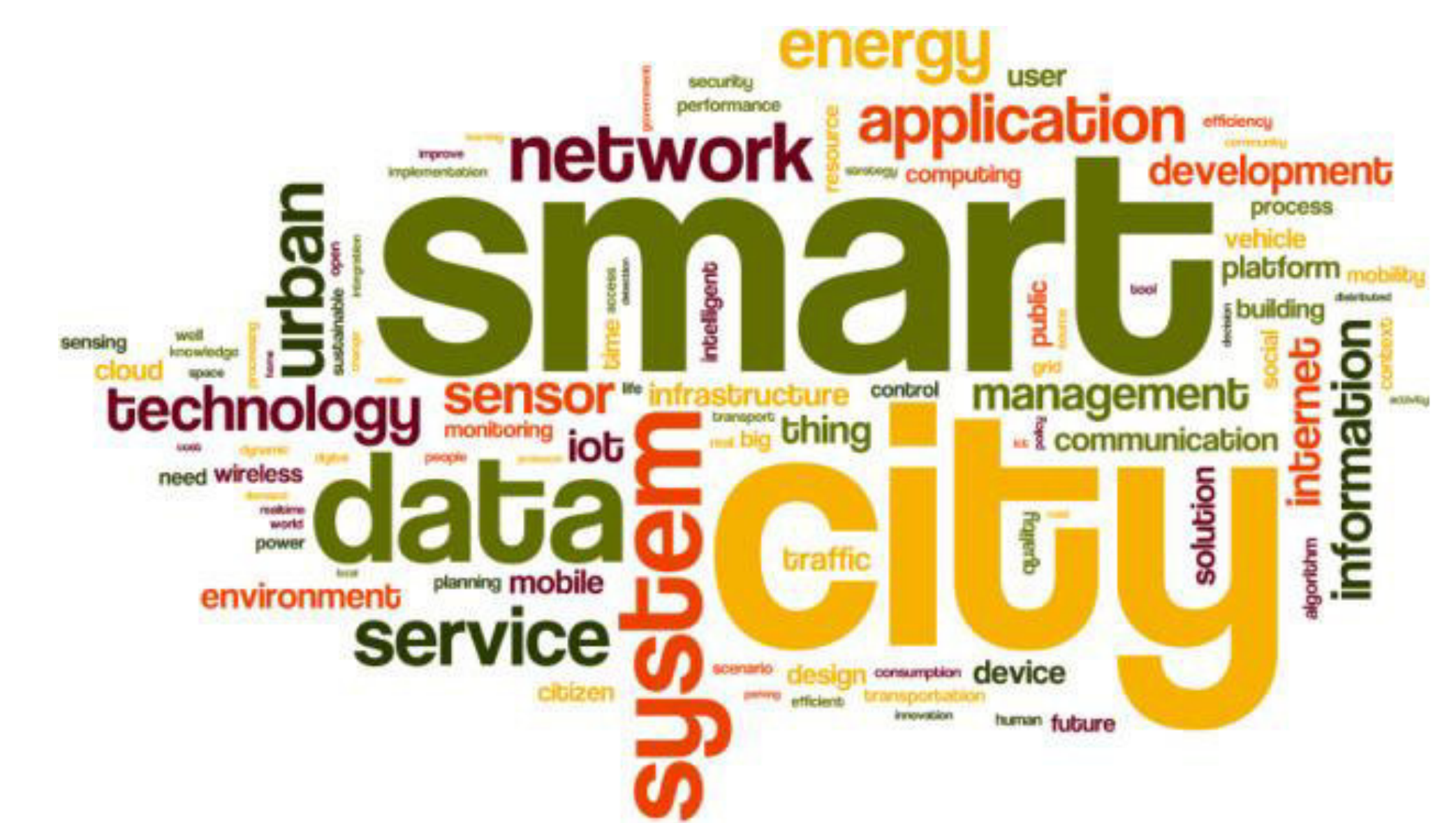
Professor, HoD and Chairman-BOS

Online Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"



May 30, 2021 (Sunday)

Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering



Last Date of Registration: 29-05-2021

Registration Link:

<https://forms.gle/Fs2u6KNWdBt914jPA>

Eligibility:

- All the students of B.Tech Civil Engineering from SVEC are eligible to participate in the event.

E-Certificates will be provided for all participants and Prize Winners

Contact us:

ASCE SVEC Office Bearers - 2021
asce@vidyanikethan.edu

Event Platform:



Rules to follow:

- The poster entry must have an impact on the topic.
- Each participant should submit one entry only.
- File Format: Save your file as a PDF for quick and easy upload.
- All Poster should be original work of participant and follow the given format.
- The following headings are suggested to structure your abstract, but you can amend as necessary – Introduction/Background, Methods, Findings, Conclusions.
- During the event, the maximum two participants in each team are given 7 minutes to present their poster and 3 minutes for queries.

Chief Patrons



Dr. M. Mohan Babu
Chairman, SVET



Sri. Vishnu Manchu
CEO, SVET

Patron



Dr. B. M. Satish
Principal, SVEC

Convener



Dr. O. Eswara Reddy
Faculty Advisor, ASCE SVEC Student Chapter
HoD and Chairman-BoS, Dept. of Civil Engg.

Coordinator



Mr. D. V. Purushotham
Coordinator
ASCE SVEC Student Chapter

Department: CIVIL ENGINEERING | Date: 30th May 2021

Online Poster Presentation on
"Civil Engineering Infrastructure for the Development of Smart Cities"
30th May 2021

The Department of Civil Engineering of Sree Vidyanikethan Engineering College has organized a Online Poster Presentation on **"Civil Engineering Infrastructure for the Development of Smart Cities"** under ASCE SVEC Student Chapter on 30th May 2021. The objective of the program is to motive and nurture the Poster Presentation skills and impart knowledge on Civil Engineering Infrastructure for the Development of Smart Cities.

A total of 18 students (04 individuals and 7 teams of each 2) from II, III and IV B.Tech. Civil Engineering I Semester has participated in the event. The whole event was conducted with great zeal and enthusiasm. The competition was conducted through **Zoom Platform** from 02:00 pm to 4:30 pm on 30th May 2021.

Dr. O. Eswara Reddy, Professor, Head, BOS Chairman, and Faculty Advisor - ASCE SVEC Student Chapter, Department of Civil Engineering, SVEC and Convener of the event addressed the gathering and motivated the participants; Mr. D. V. Purushotham, Assistant Professor, Coordinator-ASCE SVEC Student Chapter and Coordinator of the event are judged the participants on different criteria such as knowledge, presentation, demonstration, creativity and content. Office barriers of ASCE SVEC Student Chapter were the organizers of this program.

On the whole, the event has proved successful. The prize winners were judged purely based on subject knowledge and presentation skills. The **First Prize** to **Ms. Pallavi Nallaturu** of III B. Tech. CE-A; **Second Prize** to **Ms. Anupala Navya** of III B. Tech. CE-A and **Ms. Dasari Tejaswini** of II B. Tech. CE-B and **Third Prize** to **Ms. Shaik Arkat Mahamuda** and **Ms. Shaik Mahaboob Gouse Anisha** were awarded in poster presentation on "Civil Engineering Infrastructure for the Development of Smart Cities". Participation certificates were distributed to all the participants.

The students were enriched with knowledge on latest technologies used in the poster presentation. Further, it is believed that this event has ignited the young minds to learn and participate and to participate and learn.

The photographs of the event are as follows.



SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)



Online Poster Presentation on

"Civil Engineering Infrastructure for the Development of Smart Cities"



May 30, 2021 (Sunday)

Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering



Last Date of Registration: 29-05-2021

Registration Link:

<https://forms.gle/Fs2u6KNWd8t914jPA>

Eligibility:

- All the students of B.Tech Civil Engineering from SVEC are eligible to participate in the event.

E-Certificates will be provided for all participants and Prize Winners

Contact us:

ASCE SVEC Office Bearers - 2021
asce@vidyanikethan.edu

Event Platform:



Rules to follow:

- The poster entry must have an impact on the topic.
- Each participant should submit one entry only.
- File Format: Save your file as a PDF for quick and easy upload.
- All Poster should be original work of participant and follow the given format.
- The following headings are suggested to structure your abstract, but you can amend as necessary – Introduction/Background, Methods, Findings, Conclusions.
- During the event, the maximum two participants in each team are given 7 minutes to present their poster and 3 minutes for queries.

Chief Patrons



Dr. M. Mohan Babu
Chairman, SVET



Sri. Vishnu Manchu
CEO, SVET

Patron



Dr. B. M. Satish
Principal, SVEC

Convener



Dr. O. Eswara Reddy
Faculty Advisor, ASCE SVEC Student Chapter
HoD and Chairman-BoS, Dept. of Civil Engg.

Coordinator



Mr. D. V. Purushotham
Coordinator
ASCE SVEC Student Chapter

Event Brochure



SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)



Online Poster Presentation

on

"Civil Engineering Infrastructure for the Development of Smart Cities"



May 30, 2021
(Sunday)



Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering

Chief Patrons



Dr. M. Mohan Babu
Chairman, SVET



Sri. Vishnu Manchu
CEO, SVET

Patron



Dr. B. M. Satish
Principal, SVEC

Convener



Dr. O. Eswara Reddy
Faculty Advisor, ASCE SVEC Student Chapter
HoD and Chairman-BoS, Dept. of Civil Engg.

Coordinator



Mr. D. V. Purushotham
Coordinator
ASCE SVEC Student Chapter

Event Banner

Zoom Meeting You are viewing ASCE-Susmitha Akki-18121A0102's screen View Options

Recording Paused

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)
Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)

ASCE
STUDENT CHAPTER
Sree Vidyaniethan
Engineering College

Online Poster Presentation
on
"Civil Engineering Infrastructure for the Development of Smart Cities"
May 30, 2021 (Sunday)
Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering

Chief Patrons
Dr. H. Mohan Babu
Chairman, SVET
Sri. Vishnu Manchu
CEO, SVET

Patron
Dr. B. M. Satish
Principal, SVET

Convener
Dr. O. Eswara Reddy
Faculty Advisor, ASCE SVEC Student Chapter
Host and Chairman, Dept. of Civil Engg.

Coordinator
Mr. D. V. Parashantham
Coordinator
ASCE SVEC Student Chapter

asce

asce

ASCE-Susmitha Akki-18121A0102

Mute Start Video Security Participants 24 Chat Share Screen Resume/Stop Recording End

38°C Partly su... ENG 14:03

Ms. A. Susmitha, President of ASCE SVEC Student Chapter welcoming the Participants of Poster Presentation Competition

Zoom Meeting You are viewing ASCE-Susmitha Akki-18121A0102's screen View Options

Recording...

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)
Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)

ASCE
STUDENT CHAPTER
Sree Vidyaniethan
Engineering College

Online Poster Presentation
on
"Civil Engineering Infrastructure for the Development of Smart Cities"
May 30, 2021 (Sunday)
Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering

Chief Patrons
Dr. H. Mohan Babu
Chairman, SVET
Sri. Vishnu Manchu
CEO, SVET

Patron
Dr. B. M. Satish
Principal, SVET

Convener
Dr. O. Eswara Reddy
Faculty Advisor, ASCE SVEC Student Chapter
Host and Chairman, Dept. of Civil Engg.

Coordinator
Mr. D. V. Parashantham
Coordinator
ASCE SVEC Student Chapter

asce

asce

ASCE-Susmitha Akki-18121A0102

Mute Stop Video Security Participants 27 Chat Share Screen Pause/Stop Recording End

38°C Partly su... ENG 14:12

Ms. E. Sravani, Corresponding Secretary, ASCE SVEC Student Chapter welcoming the Dr. O. Eswara Reddy, Faculty Advisor of ASCE SVEC Student Chapter

Zoom Meeting You are viewing ASCE-Susmitha Akki-18121A0102's screen View Options

Recording... asce

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)
Sree Sainath Nagar, Tirupati – 517102
(Affiliated to JNTUA Anantapuramu, Approved by AICTE, Accredited by NBA; NAAC with 'A' Grade)

ASCE STUDENT CHAPTER
Sree Vidyaniethan Engineering College

Online Poster Presentation
on
"Civil Engineering Infrastructure for the Development of Smart Cities"
May 30, 2021 (Sunday)

Organized by
ASCE SVEC Student Chapter
Department of Civil Engineering

Chief Patrons
Dr. H. Mohan Babu, Chairman, SVET
Sri. Vishnu Manchu, CEO, SVET

Patron
Dr. B. M. Sarith, Principal, SVET

Convener
Dr. O. Eswara Reddy, Faculty Advisor, ASCE SVEC Student Chapter
Head and Chairman, Dept. of Civil Engg.

Coordinator
Mr. D. V. Purushotham, ASCE SVEC Student Chapter

Dr. Eswara Reddy Orekanti

Mute Stop Video Security Participants Chat Share Screen Pause/Stop Recording End

Dr. O. Eswara Reddy, Professor, HoD and BOS Chairman & Faculty Advisor of ASCE SVEC Student Chapter addressing the Students

Zoom Meeting You are viewing ASCE_Y V Vinod Reddy's screen View Options

Recording Paused asce

19121A0116, 19121A0178
Poster Presentation on **ASCE SVEC Student Chapter** Date: 30.05.2021
"Civil Engineering Infrastructure for the Development of Smart Cities"
The Smart City: Challenges and their Solutions.
O.Monisha and C.Jyashna

Introduction
The application of Civil Engineering in the construction of smart infrastructure is the foundation for all the other key elements in a smart city like smart property, smart economy, smart living, smart governance and smart environment.
Smart cities optimize the use of technology in the design and operation of infrastructure in a way which saves the cost and future needs of the citizens.
Though smart cities have many advantages, we face few major challenges while designing and constructing them.

Challenges in Developing Smart Cities

- 1. Infrastructure:** The infrastructure involved in smart cities is very complicated and costly. Many supporting services are already displaced with existing facilities and infrastructure, such as underground wiring, more pipes and transportation tunnels.
- 2. Waste Management:** Smart cities require living conditions and opportunities which can lead to growth of population. This results in excess use of water and eventually leads to shortage of water resources.
- 3. Sewage and Waste Management:** As the population increases, waste and sewage problems also increase. Lack of proper waste management can cause major problems in the smart city's development.
- 4. Traffic and Transportation system:** As smart cities develop and population increases, traffic and transportation problems start to arise. If the transportation technologies are not considered, it can become a major problem to development.

Solutions to Overcome the Challenges

- 1. Smart Infrastructure:** Developers can use smart technologies by considering infrastructure problems at the very early stage of development. By integrating with the data and cloud – which is the first implementation of the solution – developers can speed up the process of making our cities smarter by non-traditional methods.
- 2. Smart Waste Management:** Smart waste management uses Information and Communication Technology (ICT) and real-time data and responses in an integral part of the solution for waste management challenges. The potential application of smart systems in waste management is wide and includes solutions for waste quality, waste quantity, efficient collection, bins, landfill, recycling, etc.
- 3. Smart Water Management:** The current manual waste collection methods are highly resource intensive. With the usage of smart (IoT) devices, smart waste management can be implemented. A city collection system using IoT to a centralized route on a regular basis and collect waste for recycling or incineration using smart bins.
- 4. Smart Waste Water Management:** We can use smart waste water management systems that reduce, recycle, reuse, and separate waste from its smart waste management system. Smart waste systems which generate waste less for any damages that may require attention.

Role of the Indian Government
The Indian government has started many schemes for the construction and development of smart cities like ASCEIT (Asia Pacific for Smart Cities and Urban Development), Smart City Mission, Smart City Development and Implementation Scheme (SDIS), Smart City Mission, etc.
SDIS (Smart City Mission) was launched by PM Narendra Modi on 25 June 2015.

Fig 1: Urban Data Program of Smart Cities Mission

Conclusion
Training the students in critical thinking and supporting them in developing an understanding of their role in global challenges is one part of their engineering education. Empowering problem-based learning approaches can be a great help.

ASCE-Susmitha...
ASCE Svec Vidyaniethan
ASCE Sravani
Dr. Eswara Reddy...
ASCE_Y V Vino...
19121A0178...
18121A0123-Ch...
19121A0116_C Jy...
20125A0122 - K...
20125A0121 PR...

Mute Stop Video Security Participants Chat Share Screen Resume/Stop Recording End

Mr. D.V. Purushotham, Coordinator of ASCE SVEC Student Chapter explaining the Instructions to Participants in Poster Presentation

Recording... You are viewing ASCE_Y V Vinod Reddy's screen View Options

asce

18121A0170 ASCE SVEC Student Chapter Date: 30.05.2021
Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"
Building Integrated Photovoltaics

Introduction

Building integrated photovoltaics (BIPV) is the integration of photovoltaic (PV) into the building envelope. The PV modules serve the dual function of building skin-enclosing conventional building envelope materials and power generation by providing the cost of conventional materials, the increased cost of photovoltaics is reduced but in BIPV systems there are lower costs than PV systems requiring separate, dedicated, mounting systems.

Building Integrated Photovoltaic Products:

- BIPV full products:
 - Lightweight and flexible
 - Made from thin film cells
 - Low efficiency
 - Large solar exposures of thin-film cells
- BIPV full products:
 - Construction for mounting of roof
 - Electrically grounding
 - Module for as strongest panel of poly or semiconductor cells
- BIPV module products:
 - Similar to conventional PV modules
 - They are made with monocrystalline cells
- BIPV module products:
 - Thin film
 - Transmit the light
 - Survive in high wind and rain penetration
 - Variety of options for windows, facades and roofs

Applications:

Introduction of BIPV in India:

In 2019, a project which made history in Mumbai, as the largest BIPV plant in India, and possibly the world, was announced. The first ever such project was announced for a data center owned by CMC Datacenter Ltd.

Existing, brand applications:

Largest BIPV in India:

These PV modules are fixed into a facade that is designed based on the specifications and have the panels mounted on them. These will have to be developed to maintain consistency with the view of the building and aesthetic consistency. Based on the amount of natural light required the panel can be placed.

Residential solar-shading:

Conclusion:

BIPV systems are architecturally closer. The initial installation cost efforts by reducing the amount of building materials and labour work. PV panels are mostly placed, providing no shade at all, consequently they are a perfect solution for the urban areas and the residential applications.

Mute Stop Video Security Participants 21 Chat Share Screen Pause/Stop Recording End

Participation by Ms. Pathikonda Prathyusha of III B.Tech. CE II Semester

Recording... You are viewing ASCE_Y V Vinod Reddy's screen View Options

asce

18121A0188.87 ASCE SVEC Student Chapter Date: 30.05.2021
Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"
OUR FUTURE HOME

GREEN ARCHITECTURE

- Green architecture
- Constructed with ecofriendly materials
- Design green roofs and green walls
- Energy efficiency
- Reduce global warming

SMART TRANSPORTATION

- Smart roads
- Switch to energy generation charges electric vehicles, reduce heat and cool emissions
- ACCIDENTS are avoided
- Reduce accidents

SMART IDEAS

- Life is better if city is smarter
- Transportation system to be improved
- Use of smart devices
- Offer users to exchange ideas for resources
- More houses
- Affordable housing for poor people
- Drill water saving pipes
- Minimize air pollution, reduce noise

SAFETY MEASURES

- Prevent theft and damage
- Safety during and after construction
- Experienced workers who have very knowledge for development
- Safety against natural disasters
- Reduce delays
- Safety against fire

SMART WATER SUPPLY & SEWERAGE SYSTEM

Data collection using sensor systems:

Advanced data analysis:

Smart water and wastewater treatment and management:

- Control of energy (20%)
- It uses digital technology
- Open an interface with sensors
- It detects and measure flow levels
- Efficiency in water supply, irrigation, collecting sewage increases
- Conserves water
- Separate sewage pipes for rain water and drainage water

EFFECTS

- Improves quality of life
- Reduce pollution
- They are environment friendly
- Energy efficiency
- Improve environment
- Improves connectivity among citizens
- Improve transportation
- Reduce air pollution
- Reduction in life cycle
- Less traffic, lower air
- Better use of space
- Economic development
- Security
- Traffic reduction

Mute Stop Video Security Participants 20 Chat Share Screen Pause/Stop Recording End

Participation by Ms. Swetha Priya Gadikota and Ms. T. Manasa of III B.Tech. CE II Semester

Recording... You are viewing ASCE_Y V Vinod Reddy's screen View Options

asce

20125A0103 ASCE SVEC Student Chapter Date: 30.05.2021
Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"
SMART BUILDINGS INFRASTRUCTURE IN SMART CITIES
D. TEJASWINI

INTRODUCTION

- Smart buildings are among the largest investments in the modern economy. To achieve their full potential, they need to be designed, built, and operated in a way that maximizes their value to the owner and the user.
- Smart buildings are designed to be more efficient, more sustainable, and more resilient than traditional buildings. They are designed to be more efficient by using energy and resources more effectively. They are designed to be more sustainable by using green building practices and materials. They are designed to be more resilient by being able to withstand natural disasters and other threats.
- Smart buildings are also designed to be more comfortable and more productive for the people who work and live in them. They are designed to provide a better indoor environment, with better air quality, lighting, and sound. They are also designed to provide better security and safety for the people who work and live in them.

ENVIRONMENTAL BENEFITS OF SMART BUILDINGS

- Smart buildings can help reduce greenhouse gas emissions and improve air quality. They can do this by using energy and resources more efficiently. They can also help reduce water consumption and waste.
- Smart buildings can also help improve the health and well-being of the people who work and live in them. They can do this by providing a better indoor environment, with better air quality, lighting, and sound. They can also help reduce the risk of natural disasters and other threats.

ADVANTAGES AND DISADVANTAGES OF SMART BUILDINGS

ADVANTAGES OF SMART BUILDINGS

1. Higher level of security and safety
2. Improved operational efficiency and cost savings
3. Better indoor environment
4. Increased resilience and ability to withstand natural disasters and other threats
5. Better security and safety for the people who work and live in them
6. Better air quality, lighting, and sound
7. Better security and safety for the people who work and live in them

DISADVANTAGES OF SMART BUILDINGS

1. Increased complexity of systems
2. High initial cost
3. Potential for data breaches and other security issues
4. Potential for system downtime
5. Potential for increased energy consumption
6. Potential for increased water consumption
7. Potential for increased waste

DIFFERENCE BETWEEN ORDINARY BUILDINGS AND SMART BUILDINGS

ORDINARY BUILDINGS

- They are designed to be efficient, sustainable, and resilient.
- They use energy and resources more efficiently.
- They provide a better indoor environment.
- They are more comfortable and more productive for the people who work and live in them.

SMART BUILDINGS

- They are designed to be more efficient, more sustainable, and more resilient than ordinary buildings.
- They use energy and resources more efficiently than ordinary buildings.
- They provide a better indoor environment than ordinary buildings.
- They are more comfortable and more productive for the people who work and live in them than ordinary buildings.

CONCLUSIONS

Smart buildings are the future of the built environment. They are designed to be more efficient, more sustainable, and more resilient than ordinary buildings. They use energy and resources more efficiently than ordinary buildings. They provide a better indoor environment than ordinary buildings. They are more comfortable and more productive for the people who work and live in them than ordinary buildings.

Honeywell Smart City Solutions

Mute Stop Video Security Participants Chat Share Screen Pause/Stop Recording End

Participation by Ms. Dasari Tejaswini of II B.Tech. CE II Semester

Recording... You are viewing ASCE_Y V Vinod Reddy's screen View Options

asce

20125A0105, 20125A0121 ASCE SVEC Student Chapter
Poster Presentation on "Civil Engineering Infrastructure for the Development of Smart Cities"
SMART GRID
AMERICAN SOCIETY OF CIVIL ENGINEERING

INTRODUCTION

Smart Grid is an electrical grid with Automation, communication and IT system that can monitor the power flow from the point of power plant to the point of consumers. And control the power flow to match the generation at real time.

- A smart grid with improve efficiency and two way communication.
- Smart grid is a network created through IT, Communication Technology and Electrical power system.

SMART METER

- Smart meter is the meter which supply and control the flow of electricity.
- Smart meter will collect the all data such as billing, service, monitor and planning of electricity flow.
- It will reduce the fluctuations and provide the constant supply of electricity.
- Smart meter divides a day in 3 types based on supply: 1. OFF PEAK, 2. PARTIALLY PEAK, 3. PEAK.
- Smart meter try to reduce the consumption in peak hours.

RENEWABLE ENERGY RESOURCE

- AMR (Automated Meter Supply) is the present supply system where the supply of the electricity in one way direction.
- AMI is the supply applied to the smart grid system where the supply of the electricity in two way direction.
- By installing the Renewable energy resources like solar system or the tidal system, the excess amount of electricity after the utilization can be supply to the grid.
- By the two way system the loads on grid to be reduced.
- The AMI system is more economical and environmental.

COMPARISON

Existing Grid	Smart Grid
Electromechanical	Digital
One-way communication	Two-way communication
Centralized generation	Distributed generation
Few sensors	Sensors throughout
Manual monitoring	Self-monitoring
Manual restoration	Self-healing
Failures and blackouts	Adaptive and islanding
Limited control	Pervasive control
Few customer choices	Many customer choices

CONCLUSIONS

- Smart Grid is the smart way to transmit the power in controlled manner from generation unit to consumers point using modernized infrastructure that helps to improve efficiency, reliability, quality, and safety.
- Smart grid is also more economical when compare to the normal grid.
- Smart is also more eco-friendly too.

Mute Stop Video Security Participants Chat Share Screen Pause/Stop Recording End

Participation by Mr. Gurram Ranganatha Teja and Kalluri Praneeth Kumar Reddy of II B.Tech. CE II Semester

Recording... You are viewing ASCE_Y V Vinod Reddy's screen View Options

Roll no: 20121A0191, 20121A0192

ASCE SVEC Student Chapter Date: 16.04.2021

Poster Presentation on **"Civil Engineering Infrastructure for the Development of Smart Cities"**

Infrastructure and its application

Introduction

- Smart city programs provide a range of technologies that can be applied to solve infrastructure problems associated with ageing infrastructure and increasing demands.
- The potential for infrastructure and urban improvement remains unrealized, however, due to technical, financial, and social constraints and criticisms that limit the implementation of smart cities concepts for infrastructure management.
- The smart technologies including sensors, crowd-sourcing and citizen science, actuators, data transmission, Internet of Things, big data analytics, data visualization, and blockchain, which can be used for infrastructure management.
- The civil engineering domains, including transportation systems, water systems, air quality, energy infrastructure, solid waste management, construction engineering and management, structures, and geotechnical systems.
- Gaps in the application of smart technologies for infrastructure systems are identified, and we highlight how the civil engineering professions can adopt new roles toward the development of smart cities applications.
- A "smart city" is one that has developed technological infrastructure that enables it to collect, aggregate, and analyze real-time data to improve the lives of its residents.

Importance of Transportation

- 1.They play an important role in the economic, social and commercial development of the country.
- 2.They help in cultural development of the country.
- 3.They help in political development of the country.
- 4.It plays a vital role in development of rural areas of the country.
- 5.They improve the employment opportunities.
- 6.Improves the contact between two countries.
- 7.Improves the living standard of the country.
- 8.It helps to improve science and technology.
- 9.It helps in industrial development throughout the country.

Smart building

A smart building is any structure that uses automated processes to automatically control the building's operations including heating, ventilation, air conditioning, lighting, security and other systems. A smart building uses sensors, actuators and microchips, in order to collect data and manage it according to a business' functions and services. This infrastructure helps owners, operators and facility managers improve asset reliability and performance, which reduces energy use, optimizes how space is used and minimizes the environmental impact of buildings.

Smart water management

Real-time prediction of flooding is vital for the successful future operational management of the UK sewerage network. Recent advances in smart infrastructure and the emergence of the Internet of Things (IoT), presents an opportunity within the wastewater sector to harness and report in real-time sewer condition data for operation management.

Conclusion

Smart cities use data and technology to create efficiencies, improve sustainability, create economic development, and enhance quality of life factors for people living and working in the city. It also means that the city has a smarter energy infrastructure.

A smart city is an urban area that uses different types of electronic methods and systems to collect, aggregate, and analyze real-time data to improve the lives of its residents. Smart city technology allows city officials to interact directly with both community and city infrastructure and to monitor what is happening in the city and how the city is evolving.

A smart city uses information and communication technology (ICT) to improve operational efficiency, share information with the public and provide a better quality of government service and citizen welfare.

Civil engineer play's an important role in development of smart cities

Mute Stop Video Stop Video (Alt+V) Security Participants Chat Share Screen Pause/Stop Recording End

Participation by Ms. Shaik Arkat Mahamuda and Ms. Shaik Mahaboob Gouse Anisha of I B.Tech. CE II Semester

Recording... You are viewing ASCE-Susmitha Akki-18121A0102's screen View Options

ASCE

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JNTUA Anaparthi, Approved by ASCE, Accredited by NBA/NAAC with 'A' Grade)

Online Poster Presentation on

"Civil Engineering Infrastructure for the Development of Smart Cities"

May 30, 2021 (Sunday)

Organized by ASCE SVEC Student Chapter Department of Civil Engineering

Chief Patrons: Mr. D. V. Purushotham, Mr. S. Venkatesh Reddy

Patron: Dr. B. B. Suresh

Convener: Dr. C. Suresh Reddy

Coordinator: Mr. D. V. Purushotham

ASCE-Susmitha Akki-181... ASCE Vidyaniethan

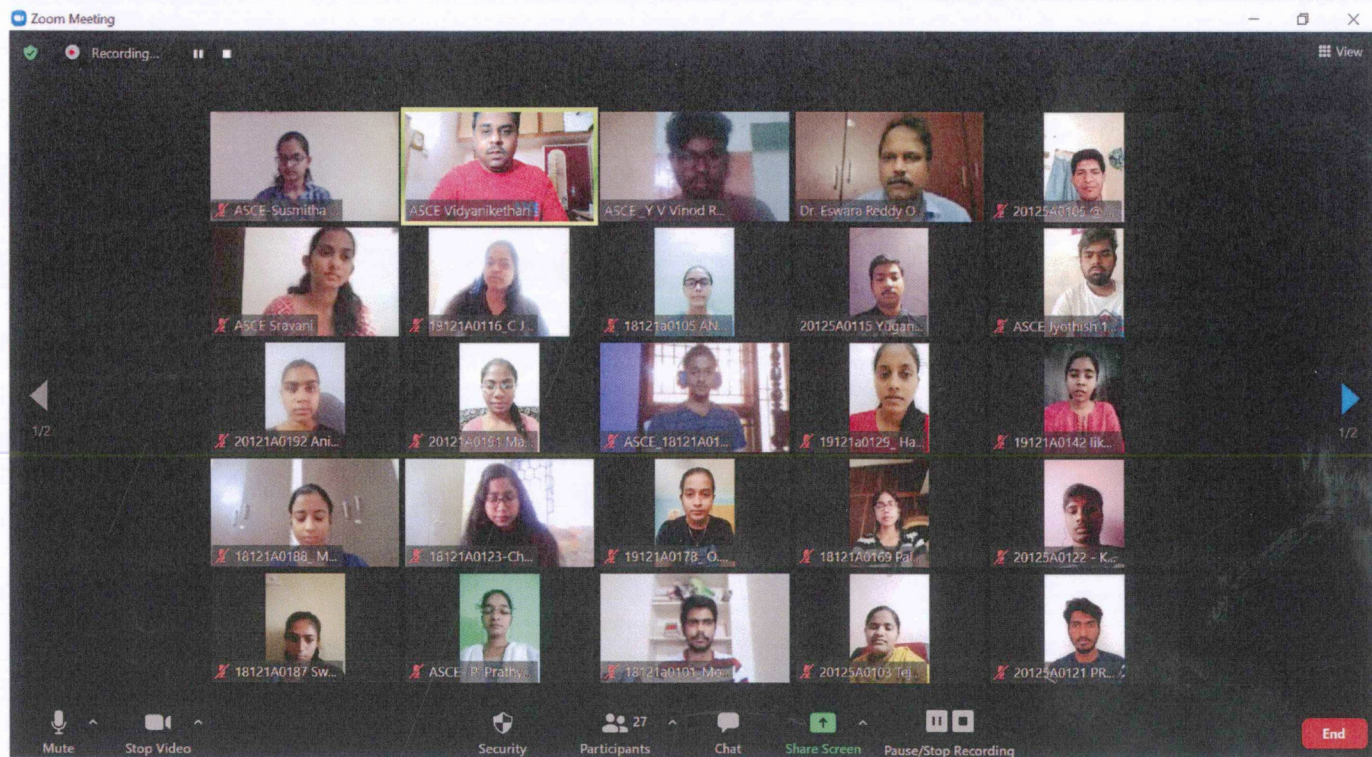
ASCE Sravani 18121A0146--Charan

ASCE-Shashanka ASCE SHAIK RAISUAL

ASCE P. Prathyusha ASCE_Y V Vinod Reddy

Mute Stop Video Security Participants Chat Share Screen Pause/Stop Recording End

Mr. D.V. Purushotham, Coordinator of ASCE SVEC Student Chapter announcing the Prize Winners of Poster Presentation



A Group Photograph with all Participants in Poster Presentation Competition

28/06/2021

(Dr. O. ESWARA REDDY)

Faculty Advisor

ASCE SVEC Student Chapter

Professor, HoD and Chairman-BOS

**AICTE-ISTE INDUCTION/REFRESHER
PROGRAMMES – 2018-19**

ONE WEEK ONLINE INDUCTION/REFRESHER PROGRAMME On

"ELECTRIC HYBRID VEHICLE" PHASE-III

(19-04-2021 to 24-04-2021)



REPORT



AICTE -ISTE sponsored online Induction/Refresher Programme on "ELECTRIC HYBRID VEHICLE" Phase- III is organized by Department of Electrical and Electronics Engineering, Sree Vidyanikethan Engineering College (Autonomous), Tirupati, Andhra Pradesh. India during April 19th -24th, 2021.

The online Induction/Refresher Programme is conducted using the Google Meet platform. A total of 92 participants from 10 states of the country participated in the Programme. The participants are the faculty and research scholars of various engineering colleges and government institutions across the country. Further, the participants are trained by the industry and academic experts. The Induction/Refresher Programme has received an overwhelming response from the participants. A total of 18 sessions are conducted. Out of 18, 16 are technical sessions and one is on "stress management" to promote the FIT INDIA movement across the country.

Electric hybrid vehicles play a very prominent role in future days to reduce the greenhouse gases. The vehicle is lighter and roomier than pure electrical vehicle because it will carry fewer batteries than the pure electrical vehicles. They are more reliable, economical, and safe in operations. Electric hybrid vehicle design needs the knowledge in electrical, electronics, mechanical, instrumentation and computer engineering for the purpose of designing, quantitatively evaluating, predicting, measuring and improving vehicle technology. Hence the Programme is considered as interdisciplinary.

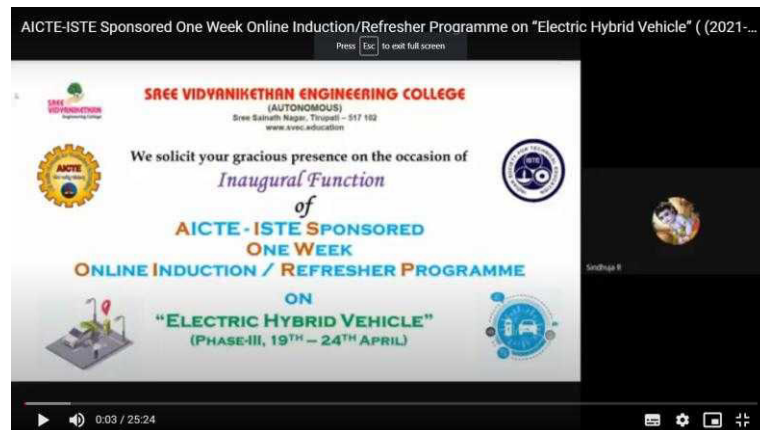
The outcomes of FDP are as follows:

- ❖ Acquire knowledge in hybrid electric vehicle technology.
- ❖ Motivates the faculty members to enhance research work in this area.

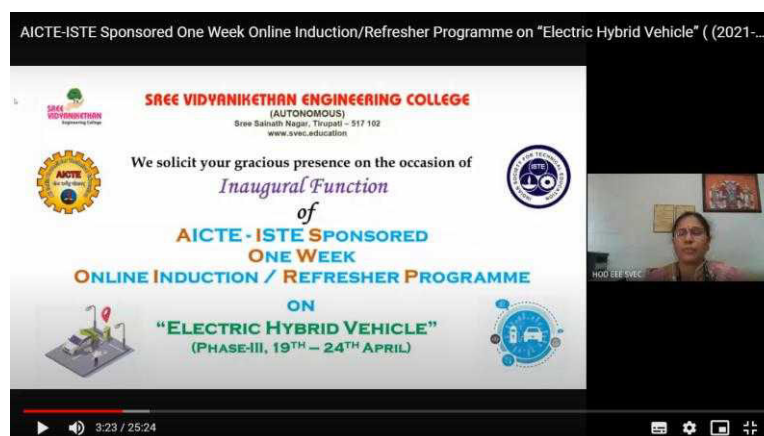
- ❖ Idealize different solutions to solve the same problem and evaluate (justifying) which one is the best with respect to its design quality.
- ❖ The programme also promotes a basic understanding of alternative fuel and HEV vehicle technology.

INAUGURAL SESSION

The inaugural function of the online FDP is scheduled on March 1, 2021 at 10:00 AM. In the inaugural function, Ms. R. Sindhuja, Assistant Professor, Department of EEE welcomed the chief guest **Col. B. Venkat**, Director (FDP-AICTE), Dr. Mani Muthu, Research Fellow, Energy Research Institute, NTU Singapore and Guest of Honor **Prof. L. Venugopal Reddy**, Advisor cum Director, SVET and Principal, directors and vice-principal of SVEC and all participants. The event is started with a prayer song.



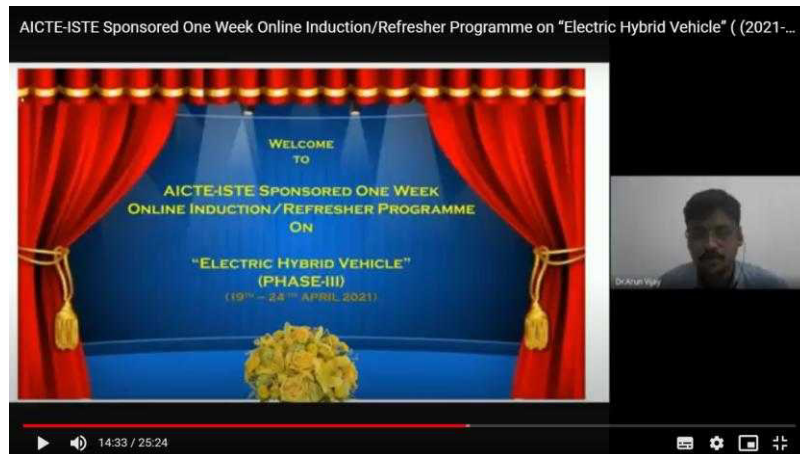
Ms. R. Sindhuja, Assistant Professor, Department of EEE is welcoming the chief guest and the participants.



Dr. M. S. Sujatha, Professor & Head, Department of EEE is giving the welcome speech.

Dr. M.S. Sujatha, Professor and Head, Department of EEE given the welcome speech. In the welcome speech, the Professor and Head, Department of EEE welcomed the chief guest, Guest of Honor, Directors and Principal & vice-principal, of SVEC and all participants and also thanked the ISTE and AICTE sponsored the FDP. Further, Professor and Head, Department of EEE highlighted the objectives of the FDP, the topics to be

discussed, the outcomes of the FDP. Later, the coordinator of FDP **Dr. V.Arun**, Associate Professor, Department of EEE introduced the chief guests to the participants.

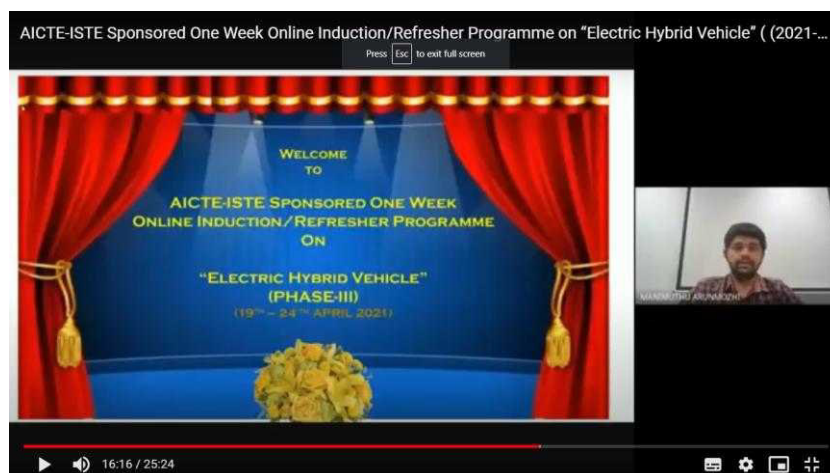


Dr. V. Arun, Coordinator, FDP is introducing the chief guest to the participants.



Chief Guest inaugurating the event.

Prof. Vijay D. Vaidya, Executive Secretary, ISTE has emphasized the skills that can gain by the participants after learning the Electric Hybrid Vehicle concepts and Prof. Vijay D. Vaidya appreciate the participants and faculties of sreevidyanikethan college to organise this FDP.



Chief Guest **Dr. Mani Muthu**, is addressing the participants.

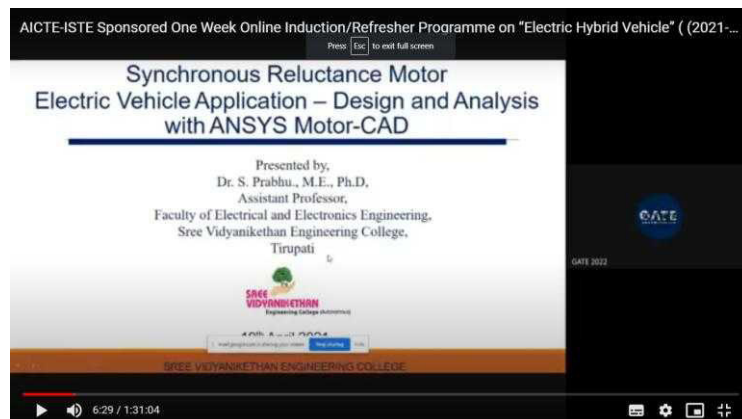
TECHNICAL SESSIONS

April 19, 2021 (Day – 1, Session – 2 & 3)

Dr.S.Prabhu, Associate professor, Sreevidyanikethan Engineering College, acted as a resource person for Second and Third session of Day-1

In this sessions Dr.S.Prabhu, explained synchronous reluctance motor electric vehicle application-Design and Analysis with ANSYS Motor -CAD. The participants have gained the knowledge on the following concepts.

- Sizing of synchronous reluctance motor
- ANSYS Motor- CAD
- Electromagnetic Analysis
- Thermal Analysis
- Mechanical Analysis
- Ansys electronics Desktop Export
- Effect for selecting lamination core material for EV motor
- Sensitivity analysis of EV motor
- Impact of cogging torque due to permanent magnet
- Causes of radial forces in EV motor
- Usage of Cooling coefficient in heat distribution for EV motor



Dr. S. Prabhu is explaining about SRM Motors with different configuration.

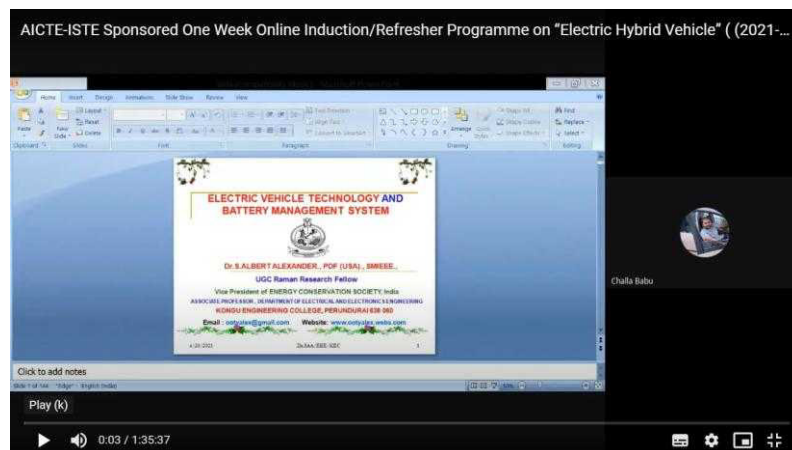
April 20, 2021 (Day –2, Session – 1)

Dr. S. Albert Alexander, Postdoctoral research fellow (USA), Associate Professor of EEE Kongu Engineering College Tamilnadu acted as a resource person for two sessions of Day-2 to deliver Electric vehicle technology and Battery management system. The first session of Day-2 was started at 10:00 AM.

In this session, the participants have gained the partial knowledge on the following:

- Introduction to EV

- Types of EV
- Control of EV
- Control strategies for the Charging system in electric vehicles
- Selection of motors for electric vehicles Applications
- Battery Management System
- Battery modelling
- Requirements of BMS for EV applications
- Calculation of SoC, SoH, DoD
- Ongoing and upcoming research issues in EV technology
- Selection of motors for EV
- Power supply design for hypersonic
- EV application
- Grid integration of renewable energy sources.



Dr. S. Albert Alexander, is explaining the applications of Power electronics.

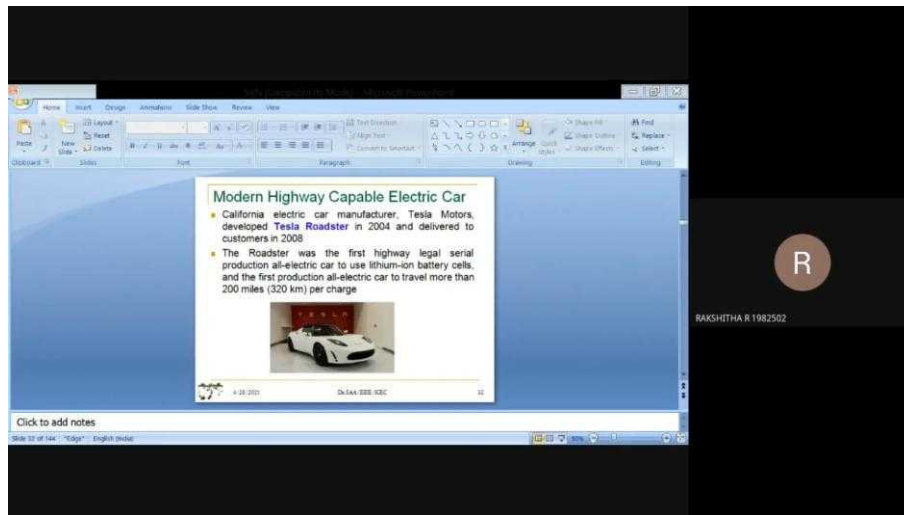
April 20, 2021 (Day – 2, Session – 2)

The session 2 of the Day-6 was started at 12:00 AM. In this session, the participants have introduced the concepts of V2G and dynamics of vehicle.

The topics that are discussed in this session are:

- Modern high way cars
- Electric Vehicle dynamics
- Range calculation
- Economical calculation
- Electrification of vehicle
- Structure of hybrid system
- Degrees of hybridization
- Energy loss: in various driving condition
- Well to wheels efficiency

- Hybrid electric vehicle
- Advantages over conventional engines
- Electric energy storage systems

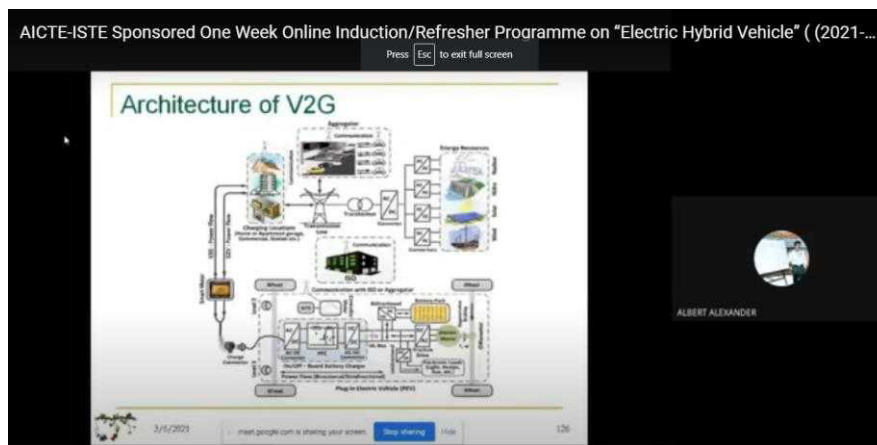


Dr. S. Albert Alexander, is explaining the concepts of modern highway capable electric car

April 20, 2021 (Day – 2, Session – 3)

The third session of the Day-3 was started at 2.30 PM. In this session, **Dr. S. Albert Alexander** has explained the following concepts.

- V2G technology
- V2G
- Benefits of V2G
- Challenges in V2G
- Architecture of V2G
- Batteries used in EV.



Dr. S. Albert Alexander, is describe about Architecture of V2G

April 22, 2021 (Day – 2, Session – 1)

Dr. Tarakanath Kobaku, DST-INSPIRE Faculty Fellow, Electrical Engineering Department, IIT Goa acted as a resource person for all the three sessions of Day-2. The first session of Day-3 was started at 10:00 AM.

In this session **Dr. Tarakanath Kobaku,,** explained the Power electronics converter topologies and control. The participants have gained the practical knowledge on the following concepts.

- IMC controller for converter
- Digital servo control scheme
- Robust internal loop compensator
- Analysis of Robust internal loop compensator

AICTE-ISTE Sponsored One Week Online Induction/Refresher Programme on "Electric Hybrid Vehicle" ((2021-...

Limitations of the conventional IMC

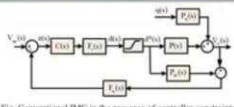


Fig. Conventional IMC in the presence of controller constraints

- In the absence of plant-model mismatch, the controller output is given as :

$$d(s) = C(s)F_c(s)[e(s)] \quad \text{where, } e(s) = V_r(s) - F_c(s)P_c(s)Y(s)$$
- Choosing $C(0) = (P_m(0))^{-1}$ provides the integral action in the conventional IMC, causing the reset windup problem^[4].
- No corrective action to halt the integral action in the conventional IMC.

0:50 / 8:00:07

Dr. Tarakanath Kobaku is Explaining vibration analysis of SRM

April 21, 2021 (Day – 3, Session – 2)

The second session of the Day-3 was started at 12.30 AM. In this session, **Dr. Tarakanath Kobaku** has brief the following concepts.

- Analysis of Robust internal loop compensator
- Objective of RIC
- Application to DC-Dc boost converter

AICTE-ISTE Sponsored One Week Online Induction/Refresher Programme on "Electric Hybrid Vehicle" ((2021-...

Application to dc-dc boost converter

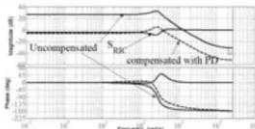


Fig. Bode plot of the sensitivity function of RIC, compensated PD compensator.

- The PD compensator is designed such that the peak value of sensitivity function of RIC has small value.
- The PD compensator parameters : $K_p = 0.0236$, $K_d = 0.000104$, $T_i = 0.00163$

41:20 / 8:00:07

Dr. Tarakanath Kobaku is Explaining vibration analysis of SRM

April 21, 2021 (Day – 3, Session – 3)

The session was started at 2.30 PM. In this session, **Dr. S.Prabhu** has delivered a lecture on Finite Element Analysis of Switched reluctance magnetic gear motor for EV

Applications. **Dr. S.Prabhu** practically shown the design of Switched reluctance magnetic gear motor.



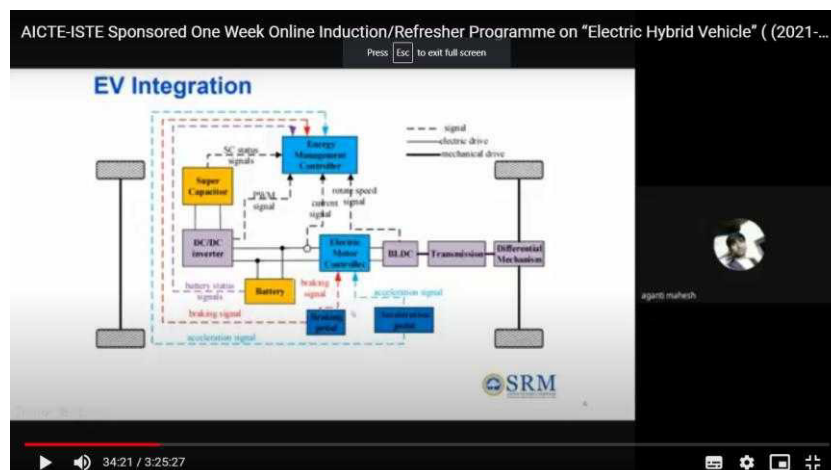
Dr. S. Prabhu is demonstrating SRM with ANSYS software.

April 22, 2021 (Day – 4, Session – 1)

Dr. C. Bharatiraja , Associate professor, SRM institute of science and technology, Chennai acted as a resource person for all the three sessions of Day-4. The first session of Day-4 was started at 10:00 AM.

In this session **Dr. C. Bharatiraja** , explained the Power electronics converter topologies and emobility and implementation. The participants have gained the practical knowledge on the following concepts.

- Converter and inverter topologies and control,
- EV motor drive
- MLI based Induction motor drive
- Different configuration of topologies



Dr. C.Bharatiraja is explaing EV motor drive

April 22, 2021 (Day – 4, Session – 2)

The second session of the Day-4 was started at 12.30 AM. In this session, **Dr. C.Bharatiraja** has demonstrated the following concepts.

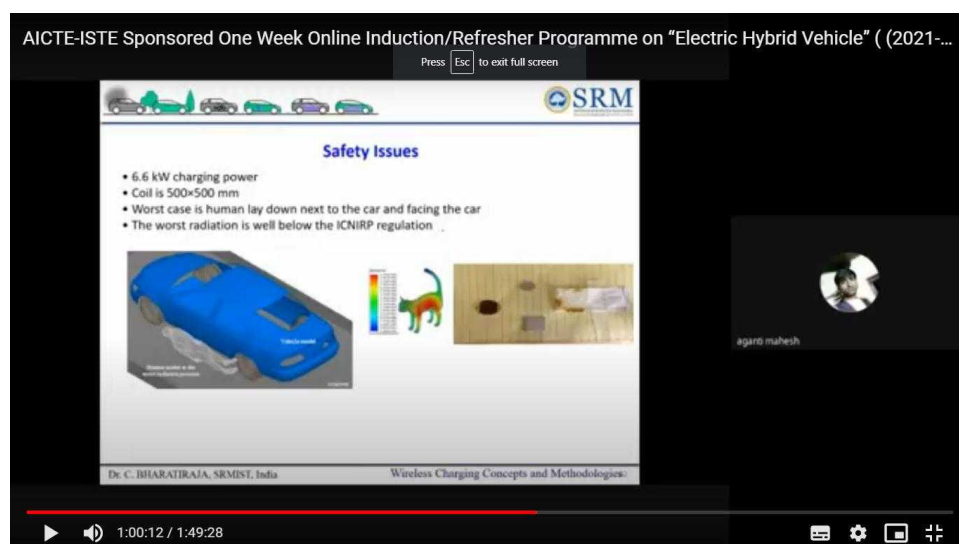
- E mobility
- Batteries
- Battery management systems
- Charging of EVs and charger
- Bidirectional charger
- Charging methods



Dr. C.Bharatiraja is explaining car Body battery pack

April 22, 2021 (Day – 4, Session – 3)

The session was started at 2.30 PM. In this session, **Dr. C.Bharatiraja** has delivered a lecture on PV plants with micro grid concepts, smart city and roll of power converters. He explained the various tags and styles that are used to design micro grid and smart grid. In addition, **Dr. C.Bharatiraja** practically shown the design of wireless charger for EV that help the participants to gain practical knowledge on EV and Charger.



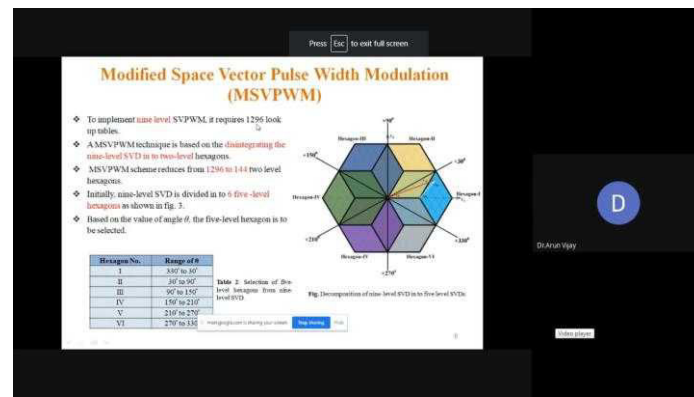
Dr. C.Bharatiraja is demonstrating Safety issues in wireless charging concepts

April 23, 2021 (Day – 5, Session – 1)

Dr.B.Hemanth kumar, Assistant Professor, Sreevidyanikethan Engineering college acted as a resource person for all the three sessions of Day-5. The first session of Day-5 was started at 10:00 AM.

The topics that are discussed in this session are:

- Multilevel inverter-Space vector pulse width modulation techniques for EV Applications
- Components of EV
- Space vector pulse width modulation techniques
- Modified Space vector pulse width modulation techniques
- Multilevel inverter topologies and simulation & real time studies.

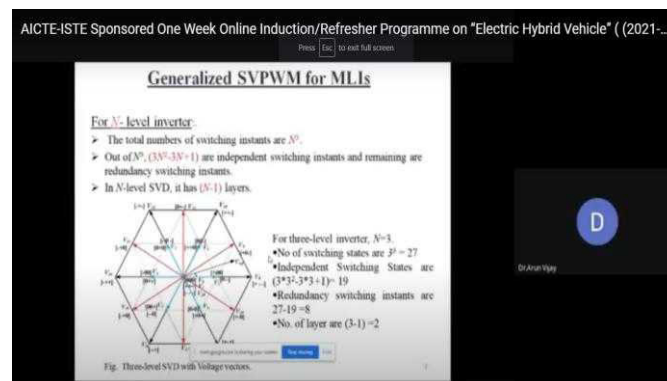


Dr.B.Hemanth kumar, is explaining modified space vector pulse width modulation techniques

April 23, 2021 (Day – 5, Session – 2)

The second session of Day-5 was started at 12.00 Noon. **Dr.B.Hemanth kumar**, explained the following to the participants.:

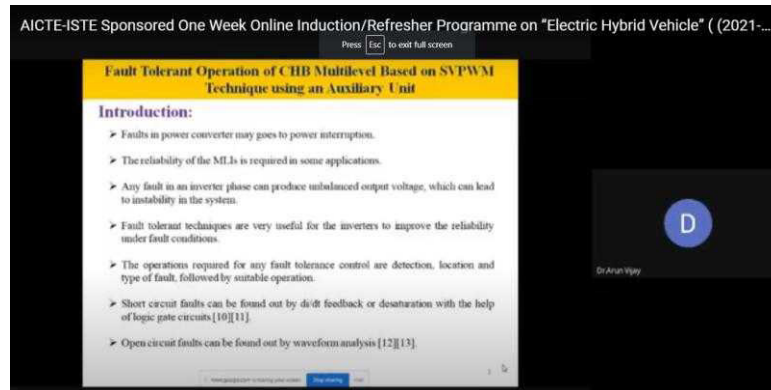
- Space vector PWM techniques
- Generalized SVPWM for Multilevel inverter
- Selection of vectors
- Dwell time calculations
- Switching states



Dr.B.Hemanth kumar, is explaining SVPWM switching techniques

April 23, 2021 (Day – 5, Session – 3)

The session was started at 2.30 PM. In this session, **Dr.B.Hemanth kumar**, has delivered a hands lecture of matlab simulation of Controls of various multilevel inverters for EV. **Dr.B.Hemanth kumar**, practically shown the design of multilevel inverters and control techniques, Fault tolerant operations of CHB Multilevel Based on SVPWM technique using an auxiliary unit



Dr.B.Hemanth kumar, is explaining Fault tolerant operations of CHB Multilevel Based on SVPWM technique using an auxiliary unit

April 24, 2021 (Day – 6, Session – 1)

The first session of the Day-6 was started at 10.00 AM. In this session, Dr. Mani Muthu, Research Fellow, Energy Research Institute, NTU Singapore.

He delivered a session on Autonomous vehicles and threats involved in Electric Vehicles. In this session, the participants have gained the knowledge on the following:

- Autonomous vehicles
- Threats involved in EV
- Cyber-attack.
- Cyber threats
- Safety elements of EV and AV
- Charging infrastructure
- Real time example



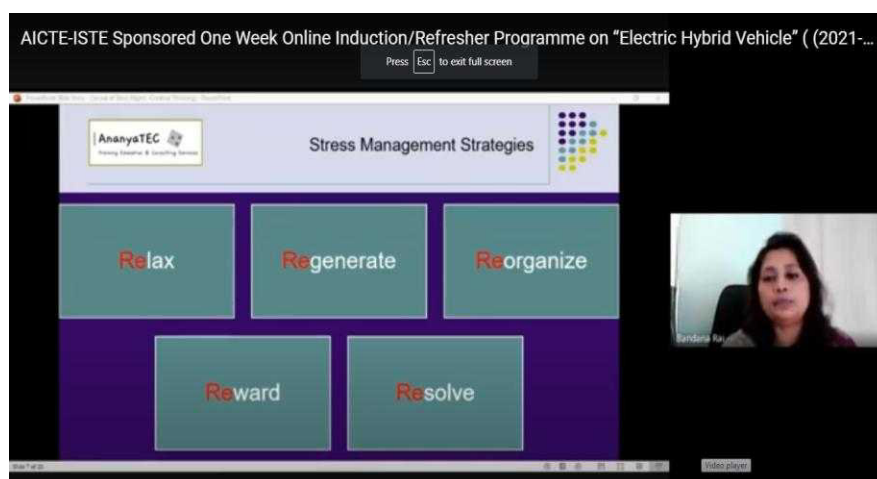
Dr. Mani Muthu, is explaining security Threats in E-Vehicles.

April 24, 2021 (Day – 6, Session – 2)

The second session of Day-6 was started at 12.00 Noon. As a part of FIT INDIA movement and to promote it across the country, the session on “**Creative Thinking for Stress Managent**” is conducted. This session was delivered by **Sri Bandana rai**, Founder and Chief mentor, Ananya Tec.

Sri Bandana rai explained the following:

- Under standing stress
- Causes of stress
- Stress management
- Strategies of emotional intelligence include self-awareness, self-management, social awarness and relationship management.
- Positive and negative emotions.



Sri Bandana rai is explaining Stress management strategies

VALEDICTORY FUNCTION

April 24, 2021 (Day – 6, Session – 3)

The valedictory function of online Faculty Development Programme (FDP) on “ELECTRIC HYBRID VEHICLE” was started at 2.00 PM on March 13, 2021. In the valedictory function, **Dr. Mani muthu**, and **Dr. M.S.Sujatha**, coordinator, **ISTE-SVEC** are invited as chief guest.

IIRS Outreach Programme

The IIRS outreach programme, which was started in 2007 with 12 universities/ institutions has now grown substantially to 2500+ network institutes. The beneficiaries of the programme may include:

- Central/State/Private Universities & Academic Institutions
- Central & State Government Departments
- Forest Resource Professionals
- State Forest Departments/Forest Training Academies
- Research Institutes
- Geospatial Industries
- NGOs

Feedback Mechanism

IIRS has conducted eleven workshops in 2007, 2009, 2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019 and 2020 to take feedback from participating institutions to improve the quality of future courses.



Feedback session during IIRS User Interaction Meet (IAM)-2020

Awards

IIRS has received national awards for excellence in training for outreach and e-learning programme during 1st National Symposium on Excellence in Training conducted during April 11-12, 2015 in New Delhi by Department of Personnel & Training (DoPT), Govt. of India in collaboration with United Nations Development Programme (UNDP).

About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation (ISRO), Department of Space, Govt. of India is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geoinformatics and GNSS Technology for Natural Resources, Environmental and Disaster Management. Formerly known as Indian Photo-interpretation Institute (IPI), founded in 1966, the Institute boasts to be the first of its kind in entire South-East Asia. While nurturing its primary endeavour to build capacity among the user community by training mid-career professionals, the Institute has enhanced its capability and evolved many training and education programmes that are tuned to meet the requirements of various target groups, ranging from fresh graduates to policy makers including academia.

IIRS also conducts e-learning programme on Remote Sensing and Geoinformation Science (<http://elearning.iirs.gov.in>).

Contact Details

Dr. Arijit Roy
Course Director and Head, DMS
Tel: 0135-2524370

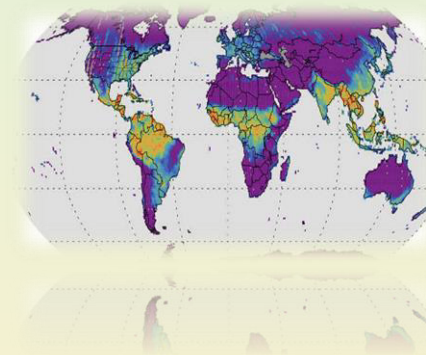
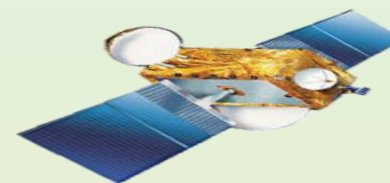
Dr. Poonam S. Tiwari
Programme Coordinator
IIRS Outreach Programme
Tel: 0135-2524334

IIRS DLP Team
Mr. Janardan Vishwakarma
&
Mr. Ashok Ghildiyal
Technical Officer-C

Tel: 0135-2524130
Email- dlp@iirs.gov.in

Indian Institute of Remote Sensing,
Indian Space Research Organisation
Department of Space, Govt. of India,
4-Kalidas Road, Dehradun

75th IIRS Outreach Programme



Geoinformatics for Disaster Management

April 05-16, 2021



Organised by

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Govt. of India
Dehradun

www.iirs.gov.in



About the Course

Natural disasters are becoming more frequent and intense across the globe. Geoinformatics, which includes Remote Sensing, Geographic Information System, Global Positioning Systems, and Internet Mapping Services, provides the most powerful technology for all phases of disaster management i.e. hazard mapping, monitoring, risk assessment, emergency response and reconstruction including early warning. The course is scheduled from April 05-16, 2021.

Curriculum

Overview of Geoinformatics Technology

- Basic concepts of remote sensing
- Basic concepts of Geographic Information System
- Overview of UAV for disaster monitoring and mitigation
- Overview of Global Navigation Satellite System
- Web Portals & Data Services for Disaster Risk Reduction

Application of Geoinformatics in Disaster Risk Reduction (DRR)

- Overview of geoinformatics technology and its role in mainstreaming DRR
- Geological Hazards
- Hydrological Hazards
- Forest Fire Hazards
- Drought Hazards
- Coastal Hazards
- Atmospheric & Pollution Hazards

Expected Outcome

At the end of this course participants will be aware of the potential of geoinformatics technology for mapping, monitoring and mitigation of various natural hazards.

Target Participants

The course is designed for professionals from Central / State Govt. / Private Organizations / NGO engaged in hydro-meteorological based regional and national projects; students and researchers aligned to research/working in DRR activities

Course Study Material

Course study materials like lecture slides, video recorded lectures, open source software & handouts of demonstrations, etc. will be made available through e-class. Video lectures will also be uploaded on e-class (<https://www.eclass.iirs.gov.in/login>).

Course Fee

There is no course fee for attending this programme.

Course Registration

- Course updates and other details will be available on URL- <http://www.iirs.gov.in/Edusat-News/>
- To participate in this programme the interested organizations/ universities/ departments/ Institutes has to identify a coordinator at their end. The identified coordinator will register online his/her Institute as nodal center in IIRS website.
- All the participants have to register online through registration page by selecting his/her organization as nodal center.

Course Funding & Technical Support

The programme is sponsored by Indian Space Research Organisation, Department of Space, Government of India.

Programme Reception

Programme can be received through e-class platform of IIRS-ISRO using internet connectivity. No specific hardware/software required. However, it is recommended good internet connectivity at user end. To run the programme in class room, following hardware will be required:

- Desktop computer with web camera microphone and output speakers or laptop with microphone camera and output speaker.
- Large display screen/projector/TV.

Important links

Courses updates and other details will be available on URL – <https://www.iirs.gov.in/EDUSAT-News>

To participate in this programme the interested organisations/universities/departments/institutes have to identify coordinator at their end. The identified coordinator will register online his/her institute as nodal centre in IIRS website (<https://elearning.iirs.gov.in/edusatregistration/coordinator>)

All the participants have to register online through registration page by selecting his/her organization as nodal centre. <https://elearning.iirs.gov.in/edusatregistration/student>

Award of Participation Certificate

Working Professionals and Students: Participation certificate Based on 70% attendance.

**There are limited number of seats.
Registration will be done on first come first serve basis**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

75th IIRS Outreach Programme

on

“Geoinformatics for Disaster Management”

By Dr. Manu Mehta, Mr. Hari Shankar, Dr. Shutosh Bhardwaj, Ms. Shefali Agarwal, Dr. Harish C. Karnatak, Dr. P. K. Champati Ray, Dr. Arijit Roy, Dr. R. S. Chatterjee, Dr. N. R. Patel, Dr. S. P. Agarwal, Dr. A. K. Mishra, Dr. Yogesh Kant,, Indian Institute of Remote Sensing, Dehradun

05 – 16 April, 2021

The Department of Electronics and Communication Engineering has organized a 9-Day Outreach Programme conducted by Indian Institute of Remote Sensing, Dehradun during 05 – 16 April, 2021. The target audience are the faculty and students of various disciplines of Sree Vidyanikethan Educational Trust, Tirupati.

Natural disasters are becoming more frequent and intense across the globe. Geoinformatics, which includes Remote Sensing, Geographic Information System, Global Positioning Systems, and Internet Mapping Services, provides the most powerful technology for all phases of disaster management i.e., hazard mapping, monitoring, risk assessment, emergency response and reconstruction including early warning.

Following topics will be covered in this course

- Overview of Geo informatics Technology
 - Basic concepts of remote sensing
 - Basic concepts of Geographic Information System
 - Overview of UAV for disaster monitoring and mitigation
 - Overview of Global Navigation Satellite System
 - Web Portals & Data Services for Disaster Risk Reduction
- Application of Geo informatics in Disaster Risk Reduction(DRR)
 - Overview of geo informatics technology and its role in main streaming DRR
 - Geological Hazards
 - Hydrological Hazards
 - Forest Fire Hazards
 - Drought Hazards
 - Coastal Hazards
 - Atmospheric & Pollution Hazards

Finally, on 16.04.2021, a panel discussion with all the mentors is conducted for interaction with the participants. Five participants have attended this programme.

Dr. V. V. Satyanarayana Tallapragada, Associate Professor has coordinated this event under the guidance of Dr. N. Gireesh, Professor and Head, Department of Electronics and Communication Engineering.



Coordinator:Dr. V. V. Satyanarayana Tallapragada

**Indian Green Building Council
Sree Vidyanikethan Engineering College
(IGBC SVEC)
Student Chapter**

Organizing

Debate

On

"Green Technologies: Pros and Cons"

Venue: Civil Engineering Seminar Hall

Date & Time: 01-04-2021, 03:30 pm

**Department of Civil Engineering
SREE VIDYANIKETHAN ENGINEERING COLLEGE**
Sree Sainath Nagar, A. Rangampet – 517 102

Department: CIVIL ENGINEERING | Date: 01st April 2021

Debate on
"Green Technologies: Pros and Cons"
01st April 2021

The Department of Civil Engineering of Sree Vidyanikethan Engineering College has organized a **Debate** on **"Green Technologies: Pros and Cons"** under IGBC Sree Vidyanikethan Engineering College Student Chapter for Civil Engineering students on 1st April, 2021. The objective of the program is to motive and nurture the debate skills, communication skills and impart knowledge on Green Technologies for Civil Engineers.

A total 44 students from I, II and III B.Tech. Civil Engineering II Semester has participated in the event. The whole event was conducted with great zeal and enthusiasm. The Debate was conducted at Civil Engineering Seminar Hall from 03:30 pm to 4:30 pm. Dr. O. Eswara Reddy, Professor, HoD and Chairman-BoS, Department of Civil Engineering, SVEC, and Faculty Advisor-IGBC SVEC Student Chapter; Mr. M. S. Yuvaraj, Assistant Professor and Coordinator, IGBC SVEC Student Chapter were together observed and judged on different criteria such as debate skills, knowledge, presentation, creativity and content. Office barriers of IGBC SVEC Student Chapter were the organizers of this program.

On the whole, the event was proved successful. Ms. Swetha Priya Gadikota of III B.Tech. CE and Mr. Kokavari Indra Sena Naidu of I B.Tech. CE were awarded the First and the Second Prize respectively. Also, participation certificates were distributed to all the participants. The students were enriched with the knowledge on latest trends in green technologies and idea about challenges in Civil Engineering.

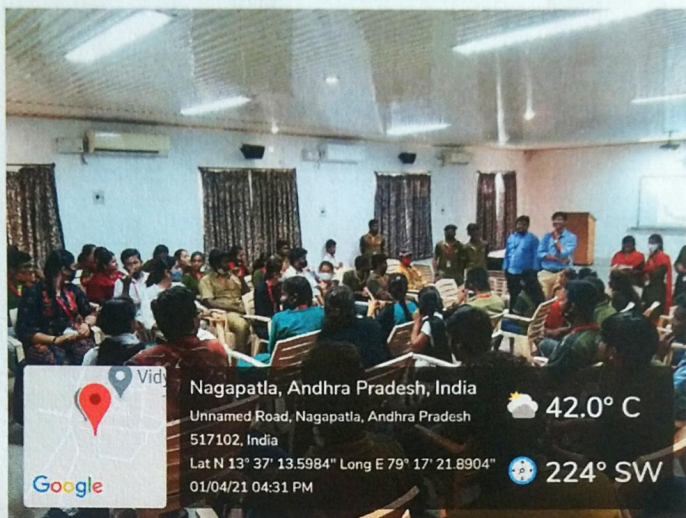
The photographs of the event are as follows.



Mr. M. S. Yuvaraj, Faculty Coordinator, IGBC SVEC Student Chapter explaining the Rules for Debate Competition



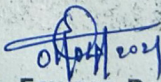
Ms. G. Swetha Priya of III B.Tech. CE debating on a Point raised by the Opposite Team



Mr. M. S. Yuvaraj, Faculty Coordinator, IGBC SVEC Student Chapter
Concluding the Remarks on Debate Competition



Participants of the Debate Competition organized by IGBC SVEC Student Chapter


(Dr. O. Eswara Reddy)
Faculty Advisor
IGBC SVEC Student Chapter
Professor, HoD and Chairman-BoS

**Indian Green Building Council
Sree Vidyanikethan Engineering College
(IGBC SVEC)
Student Chapter**

Organizing

Debate

On

"Green Technologies: Pros and Cons"

Venue: Civil Engineering Seminar Hall

Date & Time: 01-04-2021, 03:30 pm

**Department of Civil Engineering
SREE VIDYANIKETHAN ENGINEERING COLLEGE**
Sree Sainath Nagar, A. Rangampet – 517 102

Department: CIVIL ENGINEERING | Date: 01st April 2021

Debate on
"Green Technologies: Pros and Cons"
01st April 2021

The Department of Civil Engineering of Sree Vidyanikethan Engineering College has organized a **Debate** on **"Green Technologies: Pros and Cons"** under IGBC Sree Vidyanikethan Engineering College Student Chapter for Civil Engineering students on 1st April, 2021. The objective of the program is to motive and nurture the debate skills, communication skills and impart knowledge on Green Technologies for Civil Engineers.

A total 44 students from I, II and III B.Tech. Civil Engineering II Semester has participated in the event. The whole event was conducted with great zeal and enthusiasm. The Debate was conducted at Civil Engineering Seminar Hall from 03:30 pm to 4:30 pm. Dr. O. Eswara Reddy, Professor, HoD and Chairman-BoS, Department of Civil Engineering, SVEC, and Faculty Advisor-IGBC SVEC Student Chapter; Mr. M. S. Yuvaraj, Assistant Professor and Coordinator, IGBC SVEC Student Chapter were together observed and judged on different criteria such as debate skills, knowledge, presentation, creativity and content. Office barriers of IGBC SVEC Student Chapter were the organizers of this program.

On the whole, the event was proved successful. Ms. Swetha Priya Gadikota of III B.Tech. CE and Mr. Kokavari Indra Sena Naidu of I B.Tech. CE were awarded the First and the Second Prize respectively. Also, participation certificates were distributed to all the participants. The students were enriched with the knowledge on latest trends in green technologies and idea about challenges in Civil Engineering.

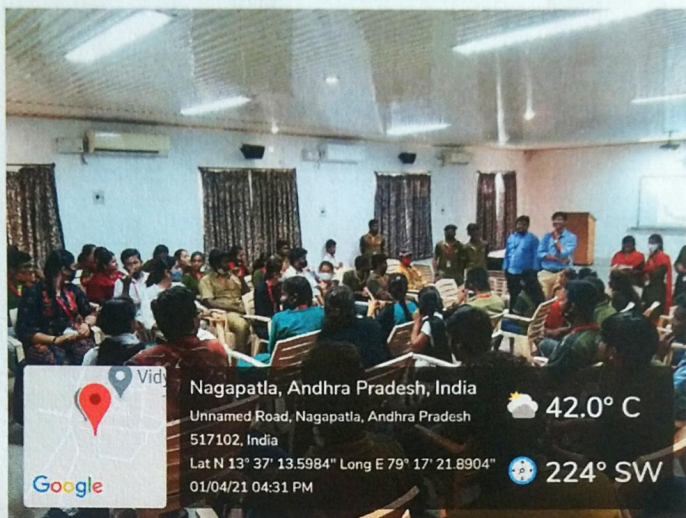
The photographs of the event are as follows.



Mr. M. S. Yuvaraj, Faculty Coordinator, IGBC SVEC Student Chapter explaining the Rules for Debate Competition



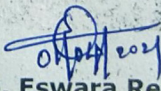
Ms. G. Swetha Priya of III B.Tech. CE debating on a Point raised by the Opposite Team



Mr. M. S. Yuvaraj, Faculty Coordinator, IGBC SVEC Student Chapter
Concluding the Remarks on Debate Competition



Participants of the Debate Competition organized by IGBC SVEC Student Chapter


(Dr. O. Eswara Reddy)
Faculty Advisor
IGBC SVEC Student Chapter
Professor, HoD and Chairman-BoS



**SREE VIDYANIKETHAN ENGINEERING
COLLEGE
(AUTONOMOUS)**

Sree Sainath Nagar, Tirupati – 517 102

Department of Electronics & Communication Engineering

MEMS Research Centre

Organizes

*Guest Lecture
On*

**ORGANIC ELECTRONICS AND ITS
SIGNIFICANCE**

Resource Person

Dr. N. Sathish Kumar

Professor,

Department of ECE

*Sri Ramakrishna Engineering College (Autonomous),
Coimbatore*

Date : **31st March, 2021**

Time : **11:30 AM**

Venue : **Mechanical Seminar Hall**

Target Group : **II Year ECE Students**

A. Rangampet, Near Tirupati - 517 102 (A.P), INDIA

Ph: +(91) 877-2236711-14 Fax: 0877-2236717

www.vidyanikethan.edu

Department of Electronics and Communication Engineering

Guest lecture on "Organic Electronics and its significance"

The event started with a short prayer. Dr.N.Gireesh, HOD of ECE, SVEC welcome the gathering and stated the importance of the program title. With the introduction of the resource person, Dr. N.Sathish Kumar, Professor of ECE from Sri Ramakrishna Engineering College, the presentation was on track.

The following are few glimpses of the lecture.

Organic electronics is a branch of modern electronics, that deals with organic materials, such as polymers or small molecules. The materials used in this kind of technology are carbon based, which is the same as the molecules of living things. When considering the properties of organic materials, it is harder to feel that they are electrical conductors. Organic materials are thought to be excellent insulators for a lot of technological applications. The discovery of the electrical conduction in organic materials can be traced to 1862 when Henry Letheby obtained a partly conductive material by anodic oxidation of aniline in sulfuric acid. Heeger, MacDiarmid, and Shirakawa discovered in the 1970s that the polymer polyacetylene, after certain modifications, can be made conductive. Doped polyacetylene can be used to form a new group of conducting polymers and the electrical conductivity of the material can be systematically tuned over a range of 11 orders of magnitude. When the dopant concentrations are near 1%, the metal-to-insulator transition happens which is verified by transport studies and far-infrared transmission measurements. In 2000, the Nobel prize in Chemistry was awarded to Heeger, MacDiarmid, and Shirakawa for their discoveries.

The discovery of electrically conductive polymers drastically changed our views on polymer materials and formed a basis of the future organic electronics. Thirty years later, a lot of success has been achieved in this field and the discovery of conductive polymers has led to interdisciplinary development among physicists, chemists, and engineers in terms of industrial applications.

The program ended with acknowledgement by the convener Dr.P.Geetha, Associate Professor, Department of ECE, SVEC.



HOD, ECE