

# PULSE'21

A National Level Technical Symposium

13<sup>TH</sup>  
2021 MAY

## TECHNOVENTER

PERSUADE, INFORM AND INSPIRE  
THROUGH YOUR PRESENTATION

## RESIST TO PERSIST

WEAR ON YOUR THINKING HATS AND  
CRACK THE RESISTOR PUZZLES

## MERCILESS FIRE

ANSWER ALL THE TECHNICAL  
QUESTIONS AS RAPID AS  
THE LIGHTNING

IDEA GENERATION TO  
PROJECT IMPLEMENTATION

6 Events & 2 Webinars

ACE TECH WRITING

## LAST MAN STANDING

BATTLE WITH THE COMPLEX  
LOGIC CIRCUITS TO SURVIVE  
TILL THE END

## HARD-U-KNOW

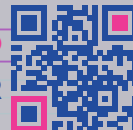
SET YOUR MINDS HIGH AND CODE  
WITH ARDUINO

## VICES AND VIRTUES

SURPRISE EVENT! EXPECT THE UNEXPECTED AND WHENEVER  
POSSIBLE BE THE UNEXPECTED

REGISTRATION  
CLOSES ON  
12<sup>TH</sup> MAY

SCAN TO  
REGISTER



For further details visit event website:  
[pulse21.tech](http://pulse21.tech)

CONVENOR

Dr.KR.Santha, Vice-Principal,  
Professor & Head of Dept,  
Department of EEE

CO-ORDINATORS

Dr.S.Kumaravel, Asst. Professor  
Dr.M.Sankar, Asst. Professor  
Department of EEE

STUDENT CO-ORDINATORS

Ms.Kavyashree A - 9500191400  
Ms.Sandhya Lakshmi V - 9499923710



**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

13/05/2021

REPORT on

**PULSE'21 - A NATIONAL LEVEL TECHNICAL SYMPOSIUM**

PULSE'21 is a National Level Technical Symposium organized by the Department of Electrical and Electronics Engineering, Sri Venkateswara College of Engineering. The symposium was conducted virtually on 13<sup>th</sup> May 2021 through G-Meet medium. This symposium witnessed over 300 registrations.

The symposium commenced traditionally with a prayer song at 9.30 AM. Dr. KR. Santha, Vice-Principal and HOD/EEE, SVCE delivered the Inaugural Address. The significance of organizing the symposium every year, a brief account on various events of Pulse'21, how the participations in events like this adds value to the students profile and placements were few important extracts of the inaugural speech.

Followed by the inaugural address, the various events commenced at 10.30 AM. The detailed schedule of the parallel events is given as Annexure-1.

The various technical events conducted in Pulse'21 include Technoventer I – the Paper presentation contest, Technoventer II – the Poster Presentation contest, Technoventer III - the Project display contest, Last Man Standing, Hard-U-Know, Resist to Persist, Merciless Fire and Vices & virtues.

The first event was Technoventer in which students presented their paper, projects and posters. Innovative presentations were showcased by the students from various reputed colleges across the Nation.

**Name of the participating Colleges:**

1. Bannari Amman Institute of Technology
2. Velammal Engineering College
3. PSG Institute of Technology
4. M. Kumarasamy College of Engineering
5. St. Joseph's College of Engineering
6. A.V.C College of Engineering
7. Anna University regional campus Coimbatore
8. Adhiparasakthi Engineering College
9. B.S.Abdur Rahman Crescent Institute of Science and Technology






A

The EMF equation  $e = N \omega \Phi \sin \omega t$  is applicable to \_\_\_\_\_

- a) AC systems with time variant field flux
- b) DC systems with time variant field flux
- c) Both AC and DC systems with time invariant field flux
- d) Both AC and DC systems with time variant field flux



## RECYCLE ENERGY SOURCES AND ENVIRONMENTAL PROTECTION

### Nuclear Diamond Battery

Vignesh P., Vignesh Kumar V., Vignesh Kumar S., Vignesh M.  
2<sup>nd</sup> Year Department of Electrical and Electronics Engineering, SVGT



#### Abstract

Throughout there is innovative interest towards the development of innovative energy production devices for small consumption. As present we are designing devices for conversion of high energy radiations into electrical power. Diamond batteries convert energy from radioactive isotopes and supply power to micro-electro-mechanical systems. This paper presents a study on Nuclear Diamond batteries and their wide applications with future scope.




#### Materials



#### Methodology



#### Applications

1. Medical instruments
2. Space power supply
3. Automobile
4. Military application
5. Linear water ion pumps
6. Micro devices
7. Sensors




#### Introduction

Diamond battery is composed to use on the radioactivity of weak graphite blocks previously used as neutron moderators in graphite moderator reactors and would generate small amount of electricity for more than thousands years.

Graphite  
Moderator

Diamond  
Battery



#### Advantages

- 1. Made in nanotech. The battery is only 100 nm thick.
- 2. It is a solid and needs no external supply.
- 3. It is a radiation induced power, giving it full design flexibility.
- 4. It is a radiation induced power, giving it full design flexibility.
- 5. It is a radiation induced power, giving it full design flexibility.
- 6. It is a radiation induced power, giving it full design flexibility.

#### Disadvantages

- 1. It is expensive. Diamonds are artificial diamonds, several are made.
- 2. It does not produce much power.
- 3. It is a radiation induced power, giving it full design flexibility.
- 4. It is a radiation induced power, giving it full design flexibility.
- 5. It is a radiation induced power, giving it full design flexibility.
- 6. It is a radiation induced power, giving it full design flexibility.

#### References

1. The diamond battery, a new type of battery, is made of diamond.
2. The diamond battery, a new type of battery, is made of diamond.
3. The diamond battery, a new type of battery, is made of diamond.
4. The diamond battery, a new type of battery, is made of diamond.
5. The diamond battery, a new type of battery, is made of diamond.
6. The diamond battery, a new type of battery, is made of diamond.

YUSAKSHORE K.E.E

Y



YUWAKSHORE K. EE

2. 5 inputs A, B, C, D and E are given in the same order starting from black not gate, give the logical expression as well as simplified expression using Boolean Algebra

PULSE SYCE

Dr. S. Kumaravel EEE is presenting

**SVCE** Sri Venkateswara College of Engineering  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
ASSOCIATION OF ELECTRICAL AND ELECTRONICS ENGINEERS

**PULSE '21**  
A National Level Technical Symposium

**ANNOUNCEMENT OF WINNERS**

svce.ac.in

PULSE '21 - A National Level Technical Symposium

Dr. S. Kumaravel EEE is presenting

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