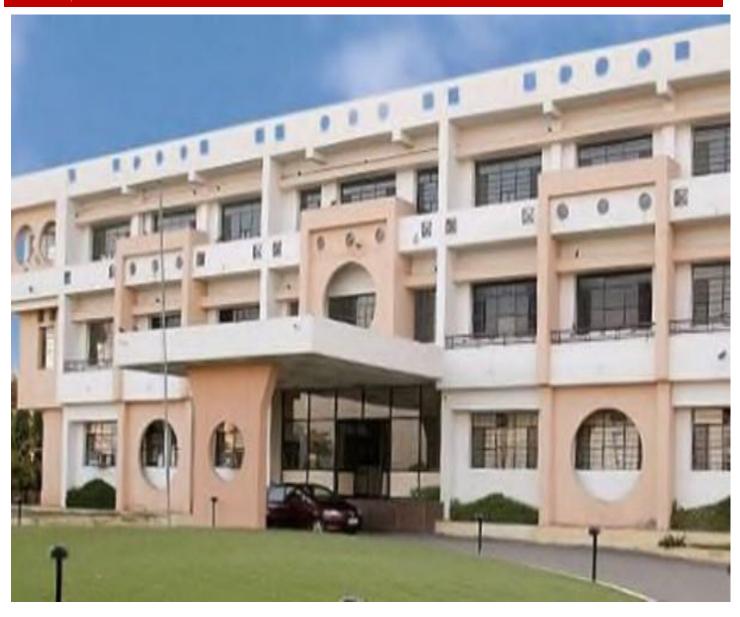


# TESLA



### **Department of Electrical Engineering** Jaipur Engineering College and Research Centre

Jaipur, Rajasthan 302022

### PREFACE

**"TESLA"** is a magazine of Electrical Engineering (EE) Department, JECRC Foundation.

This magazine contains social and technical activities which are conducted in the interval of three months (January, February and March) 2020.

### **CONTENTS**

- 1. New Year Celebration 2020
- 2. Marathon
- 3. National Conference on Recent Trends and Smart Technologies in Electrical Engineering (RTSTEE-2020)
- 4. Online Classes



### VISION OF THE INSTITUTE

To become a renowned center of outcome based learning, work towards academic, professional, cultural and social enrichment of lives and communities.

WITHOUT ENGINEERING IS

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IS CALCULATING Focus on evaluation of learning outcomes and motive student to inculcate research aptitude by project based learning.

### **MISSION OF THE INSTITUTE**

TESLA

Identify, based on informed perception of Indian, regional And global needs, the areas of focus and provide platform gain knowledge and solution. Offer opportunities for interaction Between Academia and industry.



Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders may emerge in the range of profession.

# RAM OUTCOMES

#### **Engineering Knowledge:**

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems in electrical engineering. **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences in electrical engineering.

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#### **PO3:**

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations in electrical engineering.

#### Design/ Solution

for complex Error G problem and design system component or processes, that most the specified need with appropriate consideration for the public health and safety and the cultural, social, and environmental considerations in electrical engineering.

# **PROGRAM OUTCOMES**



### ART WITHOUT ENGINEERING IS

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### **PO5:**

The engineer and society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, lega and cultural issues in electrical engineering.

### **PO6:**

**Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design or experiments, analysi and interpretation of data and synthesis of the information to provide valid conclusions in electrical engineering.

### **PO7:**

**Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge and need of sustainable development in electrical

### **PO8:**

**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice in electrical engineering.



### **PROGRAM OUTCOMES**

Page 7

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### Life-lon

Recogni have the preparation and ability to engage independent and life-long learning in electrical engineering.

### **PO11:**

**Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply to own work in electrical engineering.

#### TESLA

### MESSAGE



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Mr. Arpit Agarwal

Director

JECRC, Jaipur

The JECRC Foundation has been established with a view to provide world class education to our young minds so that they can shoulder their global responsibilities in the years to come.

The JECRC Foundation, now 18 years old, has established itself as one of the leading self-financed colleges in Northern India. This has been primarily due to the large significance that the college plays on the teaching and learning process.

The focused areas at JECRC now, apart from teaching learning and placement would be research and development, entrepreneurship and outreach. We also strive to help our students in maintaining and spreading the rich Indian culture and lead the world as our country has done in the past.

I wish to convey my greetings to all our Alumni and wish each one of them all success in their personal and professional lives.

Best Wishes Mr. Arpit Agarwal

Director

JECRC, Jaipur

### MESSAGE

Dr V. K. Chandna Principal

JECRC, JAIPUR



A desire cap change sprict hire but is deter Life is a set of prob problems in their do idea Since Scientific become an engineer Jaipur Angineering be fruitful and e experience Tyou gain spend here. Best Wishes Dr V. K. Chandna Principal JECRC, Jaipur





### ART WITHOUT ENGINEERING IS DREAMING ENGINEERING WITHOUT

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Dr. Prerak Bharadwaj HOD (EE) JECRC, Jaipur

**MESSAGE** 

Nikola Tesla, the well-known Serbian- American electrical engineer is quoted as saying "Electrical sources has revealed to us the true nature of light has provided us with innumerate appliances and instruments of precision and has thereby vastly added to the exactness of our knowledge". His words portray the immensely wide and dynamically changing and ever developing world of electrical engineering open to electrical engineer. It is a great pleasure to see the October, 2018 issue of EE newsletter "Tesla 9/19". The department has well qualified staff with expertise in Power Systems, Control Systems, Power Electronics and Drives, Electrical Machines and Renewable Energy System assisted by skilled supporting staff. I would like to thank my existing team for their commitment and hard work. The department seeks to combine excellence in education research. and Our conducting been department has hands on workshop/seminar/ training program since its beginning to keep the faculty and students to enhance the knowledge in their domain. Our mission includes a commitment to prepare students for professional and research activities with an ability to learn independently. I wish you all a successful, long-lived, engineering-based career path. **Best Wishes** Dr. Prerak Bharadwaj

HOD (EE), JECRC

# New Year Celebration

New Year Celebr members of Departu January 2020.



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### Marathon

Contribution in the marathon on 19 January 2020 by the faculty members and students.



## Marathon





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ART IS CALCULATING National Conference on Recent Trends and Smart Technologies in Electrical Engineering (RTSTEE-2020)

RTSTEE-2020 is a one day conference organized on 07-03-2020 to provide a platform to the researchers to present their researches.

Objective of the Conference:-

• To provide an exceptional platform to the academicians, researchers and students.

• To meet and discuss the practical solutions, scientific results and methods in solving various problems with people who are actively involved in emerging research fields.

• To focus on the recent technological developments in all the areas of Electrical

Engineering



Prof. (Dr.) A. Williamson (Registrar/Professor ECE), JECRC, Jaipur was our Chief Guest and

(Assistant Professor, MNIT Jaipur) was the Keynote Speaker. The program was further enriched by paper presentations given by renowned researchers in the field of electrical engineering. National Conference on Recent Trends and Smart Technologies in Electrical Engineering (RTSTEE-2020)

> After formal inaugu Recent Trends and Engineering (RTS) national conference WITHOUT 27 pa ENGINEERING IS ONFERING IS DREAMING

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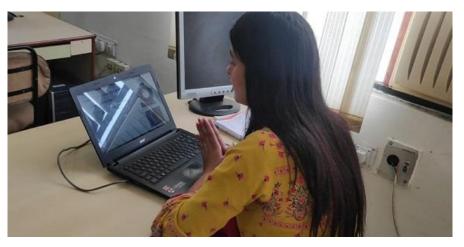


Online Classes were organised during the Novel Corona Covid-19 Pandemic.

**Online Classes** 







DEPARTMENT OF ELECTRICAL ENGINEERING

# **Online Classes**

After the Instruction were organised by hor



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EDITING IS KIND OF SOLITARY JOB.

## **EDITORIAL**

### Teacher Coordinator



Sonali Chadha Assistant Professor, EE Department, JECRC

Student Coordinator's





Milind Kumar Student, (2<sup>nd</sup> Year)



Bhupesh Goyal Student, (2<sup>nd</sup> Year)