



# 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 October 2019 to December 2019.

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## 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.

ART  
WITHOUT  
ENGINEERING IS  
DREAMING  
ENGINEERING  
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ART  
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CALCULATING

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

## MISSION OF THE INSTITUTE

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.

## PROGRAM 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.

**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 engineering 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.

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# PROGRAM OUTCOMES



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## PO5:

**The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues in electrical engineering.

## PO6:

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

## PO7:

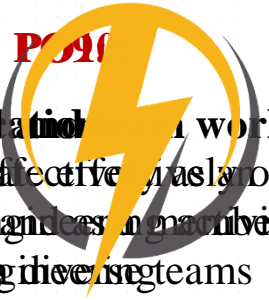
**Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge and need of sustainable development in electrical

## PO8:

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

# PROGRAM OUTCOMES

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**PO99:**  
 Individual and team work:  
 Communicate effectively in a team  
 and complex engineering environments  
 with leadership in teams  
 and community with society at  
 large  
 comprehensive  
 effective  
 document  
 engineering

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## PO11:

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

**Life-long learning:** Recognize the need to have the preparation and ability to engage independent and life-long learning in electrical engineering.



## 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 can change  
 something but is deter  
 Life is a set of probl  
 problems in their dom  
 ideas and scientific k  
 become an engineer  
 Jaipur Engineering  
 be fruitful and e  
 experience you gain  
 spend here.  
 Best Wishes  
 Dr V. K. Chandna  
 Principal  
 JECRC, Jaipur



## MESSAGE



Dr. Prerak Bharadwaj

HOD (EE)

JECRC, Jaipur

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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, 2019 issue of EE newsletter “**Tesla**”. 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 and research. Our department has been conducting 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



# Gandhi Jayanti Celebrations

The Department celebrated Gandhi Jayanti. Many activities like a quiz competition in honor of Mahatma Gandhi's vision were conducted on the 2nd of October 2020.

On 2nd October 2020, the EE Department, JECRC, celebrated Gandhi Jayanti in honor of Mahatma Gandhi's vision.

He also discussed that Dr. Prerak Bhatnagar, Head of Engineering Department, JECRC, India, is building a smart building.

Later students participated in a quiz competition organized by Mr. Ravi Singh. Followed by a debate competition.

The program was emceed by Vishal Sharma, Head of EE Department, and JECRC.



## Ten students participated in Debate

1. Ketan Gupta (1st Position)
2. Jaipal Mithal (2nd Position)(1st Year)
3. Isha Jain And Amitabh Saxena (3rd Position)
4. Shaiphali Jain
5. Ashish
6. Aman Dixit
7. Ayush Laxkar
8. Rohit
9. Harshit Vijay
10. Rishabh

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## Seven students won the prizes in technical quiz

1. Shampan joy Das
2. Piyush Bhatnagar
3. Amitabh saxena
4. Ketan Gupta
5. Shaiphali Jain
6. Rishabh (1st year)
7. Dushyant Singh



# Core Company Survey

Core company survey  
Department for financial  
14.10.19 in BLG-13



Present speakers:

1. Dr. Rishi pareek (C)
2. Mr. Atul kulshres
3. Mr. L. Senthil EE
4. Mr. Ashok Singh

# Degree Distribution Ceremony



Degree Distribution Of Batch 2018 Electrical Engineering.

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# Placement



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Company Name	Number of Students	Name of the Students
Accenture GET	14	1. Aashish Tanwar 2. Alkesh Kumar Shrivastava 3. Arun Kumar Singh 4. Divyansh Sharma 5. Harsh Kalyani 6. Jayant Devnani 7. Jayesh Ameta 8. Ketan Kumar Gupta 9. Nikhil Lohar 10. Raj Kumar 11. Shaiphali Jain 12. Ujjwal Sharma 13. Vinayak Dadhich 14. Kartik Purohit

Capgemini GET	4	1. Himanshu Jain 2. Kanika Khandelwal 3. Shaiphali Jain 4. Shashwat Tripathi
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TCS GET	4	1. Mahipal Singh 2. Nalin Jain 3. Neha Shaktawat 4. Nishu Jain
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Pinacle Infotech GET	2	1. Ritu Khandelwal 2. Saurabh sharma
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# Student Participation

Harshwardhan Ch  
attended 8th Inter  
System in MNIT Ja





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)