

*Electrical Engineering*  
*Department*  
*JECRC, Jaipur*

**TESL  
A  
07/18**

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Director  
JECRC, Jaipur



## Message

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 puts on the teaching 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. As you move ahead and rise higher in your life, you must entrench yourself in this unique realm that our culture endows us.

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

July, 2018

Mr. Arpit Agrawal  
Director  
JECRC, Jaipur



Principal  
JECRC, Jaipur



## Messa

A desire can change nothing, a destination can change something but a determination can change everything. Life is a set of problems, an engineer has to solve the problems in their domain areas with strong innovative ideas and scientific knowledge. Your commitment to become an engineer by denoting your journey in Jaipur Engineering College and Research Center will be fruitful and enjoyable in every aspect, the experience you gain from here and the moments you spend here.

Best Wishes

Dr. V. K. Chandna  
Principal  
JECRC, Jaipur

July, 2018

**HOD (EE)**  
**JECRC, Jaipur**



## Messa

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 April ,2 018 issue of EE newsletter "**Tesla 04/18**". 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. The core values of the department help the students to develop the students their overall personality and made them worthy technocrat to compete and work at global level. 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. Sandeep Vyas  
HOD, Electrical Engineering

JECRC, Jaipur

July, 2018

## ***Vision of the Institute***

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

## ***Mission of the Institute***

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- Focus on evaluation of learning outcomes and motivate student to inculcate research aptitude by project based learning.
- Identify, based on informed perception of Indian, regional and global needs, the areas of focus and provide platform to 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.

## ***Vision of Department***

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To Emerge as a Centre of Excellence in teaching in the area of Electrical Engineering; to serve as a valuable resource for society by promoting excellence.

## ***Mission of Department***

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M1: To provide professional and ethical guidance to the students to make them employable .

M2: To improve quality of education through different quality development programs for faculty and students .

M3: To encourage students to acquire practical knowledge through projects and participation in national and international events .

M4: To prepare our students for upcoming challenges of life through guidance for competitive examinations .

## **PROGRAM OUTCOMES**

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**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**Design/development of solutions:** Design solutions for complex Engineering problems design system components and processes that meet the or specified needs with consideration for the public ~~and appropriate~~ safety and the cultural, social, and environmental considerations.

**Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

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

**The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

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

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

***Individual and team work:*** Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.

***Communication:*** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

***Project management and finance:*** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

***Life-long learning:*** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# **INDUCTION PROGRAM**

## **DAY 1(2 JULY 2018)**

- Basic introduction to the department and to the faculty members.
- Time Management activity by mr. Gopal Tiwari.
- Career guidance session by mr. L Senthil .
- Lab session by miss. Neha Agrawal.
- Lab session by mr. Atul kulshreshtra.



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## **DAY 2(3 JULY 2018)**

- Extempore by mr. Gopal Tiwari..
- Industrial visit to GSS (Grid Sub Station)under the guidance of mr.Rahul Mali . Students were comprehended about the working of transformers, types of transformers, heir designs and other basic information about them.



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**DAY 3 / 4**  
**(4 July – 5 July 2018)**

- Various professional societies and their benefits to the Society by mr. Atul Kulshreshtha.
- Introduction to research by mr. Gopal Tiwari includes how to write a paper and gets it published.





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## JAVA WORKSHOP

A brief introduction of JAVA language to the students by mr. Sanjay Rathore, who is a architect and developer in desktop, web , and mobile application for 7 years. Professional trainer in JAVA, advance java , android , database and server management.



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## **ONE MINUTE SPEAKING**



## **DAY 5(6 JULY 2018)**

- Application of C++ by mr. Vishal Sharma.
- Aptitude classes by mr. Vishnu Dutt.



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## **Day 6** **(7 July 2018)**

- Aptitude / Reasoning classes by mr. Vishnu Dutt.
- Expert lecture on Generation of Power Plant by mr. Shailendra Shrivastava.



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## **Day 7** **(9 July 2018)**

- Phase training for the students by Prof. Shubham Bansal for 6 hours .
- Soft skills development like who gets heart? , aptitude session, do and don't in interview .These are some of the topics discussed with the students in the session.



April,2018

# EDITORIAL BOARD



## *Faculty Coordinators*

- Ms. Geetika Mathur
- Ms. Yazusha Sharma



## *Student Coordinators*

- Isha Jain  
(3<sup>rd</sup> year)



- Kanika Khandelwal  
(3<sup>rd</sup> year)



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▪Ujjwal Sharma  
(3<sup>rd</sup> year)



▪Shashwat Tripathi  
(3<sup>rd</sup> year)

