

TESLA
02/18

Electrical Engineering Department
JECRC, Jaipur



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February
2018

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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

Mr. Arpit Agrawal
Director
JECRC, Jaipur

Principal
JECRC, Jaipur



Message

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



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 February, 2018 issue of EE newsletter "**Tesla 02/18**". 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

Vision of the Institute

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

- 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

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

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

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 and design system components or processes that meet the specified needs with appropriate consideration for the public health and 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.

Gurukripa Career Institute - Gurukripa Career Institute Came for the campus placement on 2nd Feb '18 and they conducted different activities for the selection process of students which included aptitude test at first and then it was followed by GD and personal interview. Ms. Anju Shukla was selected from EE Department with a pay package of 4.0 LPA.



FEV India Pvt. Ltd. - FEV India Pvt. Ltd. Came for the campus placement on 19th Feb '18 and they conducted different activities for the selection process of students which included aptitude test and personal interview and in this Mr. Chirag Bassi from EE Department got selected with a pay package of 3.8 LPA.



Off Campus placement Drive-Mr. Abhinav Goyal from EE Department, got selected in Ostico (Yogo International) which was started on 19 December 2016 in Bharatpur, India, with a pay package of 2.1 LPA.



CORE JAVA AND ANDROID TRAINING PROGRAM

Electrical Engineering Department of JECRC, Jaipur is organizing a Java training program for students.

1. Duration - Total Training Period.

104 Hrs

02 Hrs per Day

2. The total number of students attending the Training Session.

42

OUTPUT OF THE COURSE

The course will enable the students to learn the algorithmic approach towards writing codes in more precise manner, in making software based applications which includes standalone application, client server application and web applications. This will not only enhance the capabilities of the students but it will help the students to think in a more comprehensive way which would help them elucidate real life problems in digital form. It will give them a technique to represent all things digitally and present their thoughts in more efficient and analytic way.

Java is called the Swiss army knife in all the languages due to its flexibility. Due to this it is being used in semiconductor industries. Today semiconductor industries are using embedded

Java for their development. Java is being used in home automation which will operate all the appliances using WORLD WIDE WEB. Java' scope is not limited to this only. It can be used to manufacture smart grids. This will enable an electrical engineer to extend his limits further beyond imagination. Having mastered the art of programming with such a versatile language will not increase the skills but it will help the students acquire a way of thinking where solution of every problem is possible.

STUDENT 'S ACHIEVEMENTS

□ Mr. Sudesh Choudhary (2nd Year) has secured 2nd rank in Volleyball match of JU Verve 2018.



FACULTY'S ACHIEVEMENTS

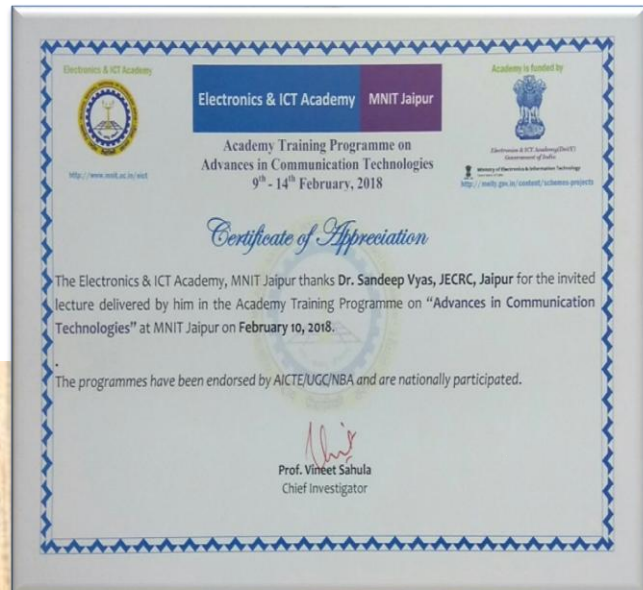
❑ **Dr. Sandeep Vyas, Associate Professor, and HOD of Electrical Engineering** was invited as the Session Chair in International Conference on Optical & Wireless Session Chair Technologies-2018 (OWT 2018) organized by **Malaviya National Institute of Technology, Jaipur** on 11th Feb, 2018.



Dr. Sandeep Vyas taking a memento of appreciation for session chair in OWT-2018 from **Dr. Preetam Kumar, Associate Professor, Electrical Engineering Department, India Institute Technology, Patna.**

❑ Dr. Sandeep Vyas delivered a lecture at MNIT (Jaipur)

One week (40 hours) Faculty Development Program (FDP) was organized on "Advance in Communication Technology" during 9th to 14th February 2018 under the banner of E&ICT Academy in Malaviya National Institute of Technology (MNIT) Jaipur. In this faculty development program, Dr. Sandeep Vyas, Associate Professor and HOD Electrical Engineering was invited as the subject expert to give his speech. Dr. Vyas delivered his lecture on "Supercontinuum: Next Generation Light Sources".



Dr. Sandeep Vyas, Associate Professor, Electrical Engineering Department, JECRC Foundation taking a memento of appreciation in Faculty Development Program (FDP) was organized by MNIT (Jaipur) from **Dr. Satyasai Jagannath Nanda**, Assistant Professor, Electronics & Communication Engineering Department, MNIT (Jaipur)

□ **Mr. Atul Kulshrestha, Assistant Professor**, Department of Electrical Engineering has been elected as a Life Member of IETE Society, New Delhi by the Institution of Electronics and Telecommunication Engineers, New Delhi on 11th Jan, 2018. This is 65 year old Technical Society. His membership No. is M 500913.

□ **Mr. Rahul Kumar, Assistant Professor** from Department of Electrical Engineering has published a paper in Journal of Intelligent and Fuzzy System (SCI Journal) with the title of “DG integrated distributed system expansion planning with uncertainties” in the First International Conference on signals, machines & automation (SIGMA-2018) organized by division of Instrumentation & Control Engineering at Netaji Subhas Institute of Technology Delhi, India during 23-25 Feb, 2018 .



□ **Mr. L. Senthil & Ms. Sonali Chadha, Assistant Professors** in the Department of Electrical Engineering have participated in one week faculty development program on “Intelligent Algorithm Application to deregulated Power System” held at Malaviya National Institute of Technology Jaipur during 23rd to 27th February 2018 under the aegis of Electronics & ICT Academy, MNIT Jaipur, Rajasthan. This Program has been endorsed by AICTE/UGC/NBA and sponsored by the meitY, Ministry of electronics & IT, Government of India.

Publications-

❑ Dr. Sandeep Vyas

Paper Name- Liquid-Core Circular Photonic-Crystal Fiber for Supercontinuum Generation

Name of Conference- International Conference on Emerging Technologies in Computer Engineering – 2018 (ICETCE-2018) at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur.

Date- 2nd-3rd February 2018

Publish In- Taylor and Francis (Journal of Statistics and Management Systems)

❑ Dr. Sandeep Vyas

Paper Name- Supercontinuum generation at 3100 nm in dispersion engineered $\text{As}_{38.8}\text{Se}_{61.2}$ based chalcogenide photonic crystal fibers

Name of Conference- International Conference on Optical & Wireless Technologies (OWT 2018) at Malaviya National Institute of Technology (MNIT), Jaipur

Date- 10th- 11th February 2018

Publish In- Springer Book Series Lecture Notes in Electrical Engineering (LNEE)

□ Dr. Sandeep Vyas

Book Name: [Optical and Wireless Technologies](#)

Published By: Springer Nature Singapore

Chapter Name: Multi-material Photonic Crystal Fiber in MIR
Region for Broadband Super continuum Generation

Print ISBN- 978-981-10-7394-6

Electronic ISBN- 978-981-10-7395-3

DOI- 10.1007/978-981-10-7395-3_23

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□ Mr. Gopal Tiwari

Paper Name- Integration impacts of distributed generation on
distribution system

Name of Conference- ICRITETR, Jaipur

Date- 2nd February 2018

ISSN No- 978-93-5291-761-7

□ Mr. Ram Singh

Paper Name- Integration impacts of distributed generation on
distribution system

Name of Conference- ICRITETR, Jaipur

Date- 2nd February 2018

ISSN No- 978-93-5291-761-7

□ Ms. Neha Agrawal

Paper Name- Integration impacts of distributed generation on
distribution system

Name of Conference- ICRITETR, Jaipur

Date- 2nd February 2018

ISSN No- 978-93-5291-761-7

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