



## RAJKIYA ENGINEERING COLLEGE AMBEDKAR NAGAR-224122 U.P.

GOVERNMENT ENGINEERING COLLEGE APPROVED BY AICTE & AFFILIATED TO  
DR. APJAKTU, LUCKNOW. (COLLEGE CODE 737)

APRIL-2019 MONTHLY NEWSLETTER VOL.NO.:04 ISSUE NO.:02

### In this Issue:

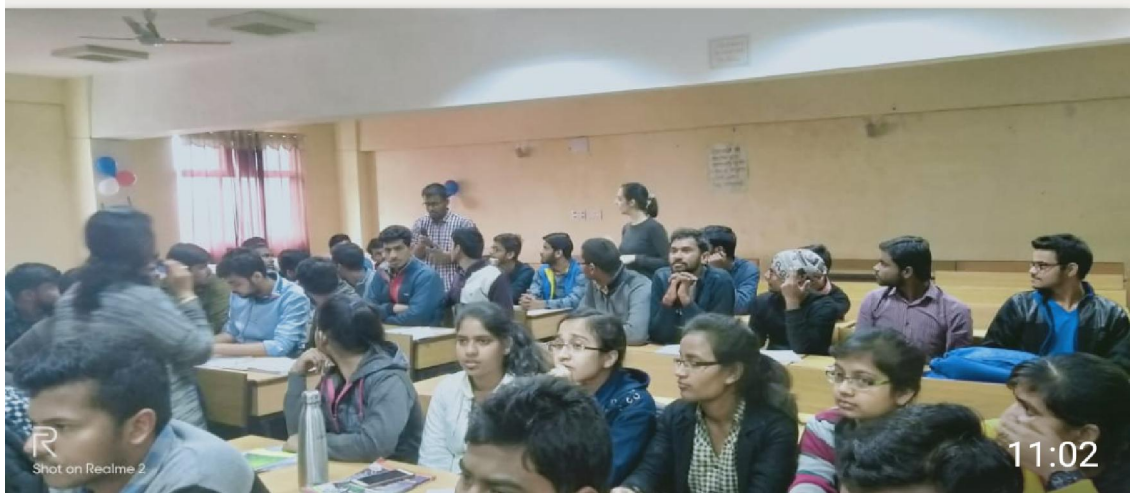
- A. Professional Development Achievements
- B. Achievements for Department Wise News
- C. Faculty and Staff Achievements News:
  - a) Department of Civil Engineering
  - b) Department of Electrical Engineering
  - c) Department of Information Technology



**Dr. S. P. Singh (Associate Professor & Head - REC ABN)** : Delivered the Expert Lecture in One Week Short Term Course on "Emerging Power Technologies and Management (EPTM-2019)" held during April 08-13, 2019 at Department of Electrical Engineering, KNIT Sultanpur, U.P.

## A. Professional Development :

1. **REC ABN** : Mr. Vikas Patel (Start-up Coordinator) & **Speaker: Major Gen. P. K. Singh Start-ups** organized in association with IEEE student branch and chapters of REC Ambedkar Nagar in CSA Hall.



## B. Achievements for Department Wise News:

### a) Achievement for Department of Civil Engineering :

- (1) **Department of Civil Engineering:** Short Term Course (8th-2th April, 2019) on Leadership, Management Strategy & Professional Ethics through ICT was organised by the Department of Civil Engineering in collaboration with NITTR, Chandigarh.

## C. Faculty and Staff Achievements News:

### a) Department of Civil Engineering:

1. **Mr. Ayush Mittal** (Assistant Professor) completed his **Doctorate of Philosophy** in Geotechnical stream of Motilal Nehru National Institute of Technology, Prayagraj (Allahabad) U.P.
2. **Dr. Ayush Mittal** (Assistant Professor) and **Mr. Amit Kumar Rai** (Assistant Professor) were the **conveners** of Short Term Course (8th April- 12th April, 2019) on Leadership, Management Strategy & Professional Ethics through ICT was organised by the Department of Civil engineering in collaboration with NITTR, Chandigarh.
3. **Mr Vijayendra Pratap Dheeraj** (Assistant Professor), **Mr Anoop Kumar Verma** (Assistant Professor) and **Mr. Nitin Kumar Shukla** (Assistant Professor) were the **Co-ordinators** of Short Term Course (8th April- 12th April, 2019) on Leadership, Management Strategy & Professional Ethics through ICT was organised by the Department of Civil engineering in collaboration with NITTR, Chandigarh.

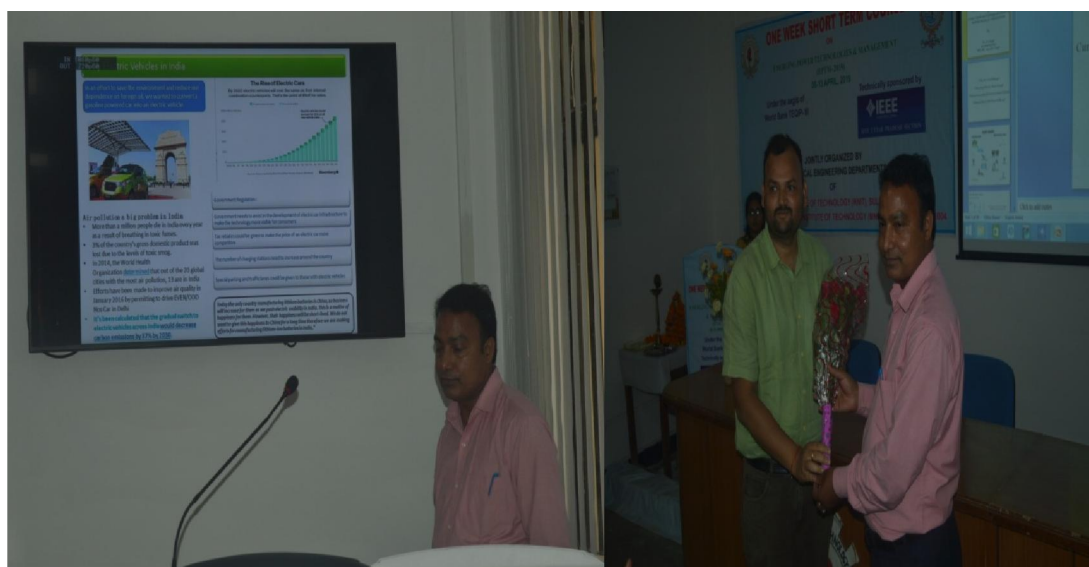
**4. Mr. Avaneesh Kumar Yadav** (Assistant Professor) and **Ms. Vaishali Rajbhar** (Assistant Professor) were the **Secretary** of Short Term Course (8th April- 12th April, 2019) on Leadership, Management Strategy & Professional Ethics through ICT was organised by the Department of Civil engineering in collaboration with NITTR, Chandigarh.

**5. Mr. Mohd Asim and Dr. Ayush Mittal** (Assistant Professor) **organized** two days (10.04.2019 to 11.04.2019) training cum traffic count camp.

## **b) Department of Electrical Engineering:**

### **1. Dr. S. P. Singh, Associate Professor & Head:**

- i. Delivered the Expert Lecture in One Week Short Term Course on "Emerging Power Technologies and Management (EPTM-2019)" held during April 08-13, 2019 jointly organized by Department of Electrical Engineering, KNIT Sultanpur, U.P. & Department of Electrical Engineering, MNNIT Allahabad, U.P.



### **2. Dr. Mohammed Aslam Husain, Assistant Professor with Mr. Yudhishtir Pandey, Assistant Professor :**



- i. **Dr. Mohammed Aslam Husaingot** the Approval message of the Formation of the Rajkiya Engineering College, Ambedkar Nagar, Power & Energy Society Student Branch Chapter.



- ii. The name of **Dr. Mohammed Aslam Husain** got Included in the Executive Committee of IEEE PES/IAS Joint Chapter UP Section.



- iii. **Dr. Mohammed Aslam Husain** Organized a quiz competition: To celebrate the Ambedkar Jayanti, a quiz competition on “INDIAN CONSTITUTION & CURRENT AFFAIR” was jointly organized by IEEE student branch Rajkiya Engineering College (REC) Ambedkar Nagar (STB11386), IEEE PES student chapter of REC Ambedkar Nagar (SBC11386), WIE-IEEE Student Affinity group of REC Ambedkar Nagar (SBA11386) on 13/04/2019. Ambedkar Jayanti or Bhim Jayanti is an annual festival observed on 14 April to commemorate the memory of B. R. Ambedkar. It marks Babasaheb Dr. B.R. Ambedkar's birthday who was born on 14 April 1891

The main guests on this event were Mr. Kripa Shankar (PWD- Ambedkar Nagar), Mr. Pawan Kumar (PWD- Ambedkar Nagar) and Dr. R R Indian (Rajkiya Mahavidyalaya, Gazipur). The toppers of the quiz were as follows:

**First:** Mr. Abhishek Pandey (B.Tech Electrical Engg., 3rd year student)

**Second:** Mr. Saurabh Gautam (B.Tech Civil Engg., 1st year student)

**Third:** Mr. Manvendra Pratap Singh (B.Tech Civil Engg., 2nd year student)

Students of all Engineering branches of REC Ambedkar Nagar participated in this event. The Branch Councillor, and PES chapter Advisor of REC Ambedkar Nagar, Dr. Mohammed Aslam Husain, told the students about the contributions of Babasaheb Dr. B.R. Ambedkar to the nation and society.

**Mr. Yudhishtir Pandey** (Advisor, WIE Affinity group-SBA11386, REC Ambedkar Nagar) also highlighted his achievements of Dr. B.R. Ambedkar and finally gave the votes of thanks.

*Some of the pictures of the events :*





iv. **Dr. Mohammed Aslam Husain** Organized celebration of the PES Day :

The Inaugural ceremony of IEEE Power & Energy Society (PES) Student Branch Chapter (SBC-11386), celebration of the PES Day followed by a lecture by Mr. Saurabh Kesharwani on the Topic: “IEEE Power & Energy Society” and IEEE Seminar talk on “GaN based high frequency compact DC-DC converter” by Dr. Sandeep Anand (Assistant Professor in the Department of Electrical Engineering, IIT Kanpur and the Chairman of executive committee of PES-IAS Joint Chapter UP Section) (30/04/2019) Organized by Department of Electrical Engineering, IEEE Student branch, and IEEE chapters of our college and PES-IAS Joint Chapter UP Section jointly organized this event which was sponsored by TEQIP-III Rajkiya Engineering College, Ambedkar Nagar (U. P.)

The Inaugural ceremony of IEEE Power & Energy Society (PES) Student Branch Chapter and celebration of the PES Day were organized successfully on 30/04/2019. The chief Guest of this event was Dr. Sandeep Anand, who is an Assistant Professor in the Department of Electrical Engineering, IIT Kanpur and the Chairman of executive committee of PES-IAS Joint Chapter UP Section, Guest of Honour was Prof. Irshad Husain (Mentor of REC Ambedkar Nagar), Dr. Sudhakar Tirpathi (Head, ITD), Dr. Ayush Mittal (Head CED), Dr. S P Singh (TEQIP Coordinator and Head, EED, REC Ambedkar Nagar), Dr. Mohammed Aslam Husain (Branch Counsellor - IEEE student Branch and Chapter advisor PES Chapter of REC Ambedkar Nagar), Mr. Yudhishtir Pandey (Advisor, WIE Affinity Group) other faculty members of the department & college and students were present. The department, IEEE Student branch, and IEEE chapters of our college and PES-IAS Joint Chapter UP Section jointly organized this event which was sponsored by



TEQIP-III of REC Ambedkar Nagar.



Prof. Irshad Husain (Mentor of REC Ambedkar Nagar) praised all faculty members of Electrical Engineering Department for opening this new IEEE student branch chapter and also motivate to organize many events under this banner.

The office bearers of our IEEE student branch are Dr. Mohammed Aslam Husain (Branch Counsellor), Mr. Shivraj Vishwakarma (Branch Chair), Ms. Preeti Maurya (Branch Vice -Chair), Maneesh K Gupta (Branch secretary), Mr. Akash Gangway (Branch Treasurer) and Ashish Kumar Saroj, Neeraj Kumar (Branch Webmaster) & Mr. Amit Manjhi (PES chapter Chair)

Dr. Sandeep Anand, who is an Assistant Professor in the Department of Electrical Engineering, IIT Kanpur and the Chairman of executive committee of PES-IAS Joint Chapter UP Section, delivered an expert lecture on the topic “GaN based high frequency compact DC-DC converter”.

Mr. Saurabh Kesharwani (IIT Kanpur) delivered a lecture on “IEEE Power & Energy Society”



In the end, Dr. M Aslam Husain thanks to Dr. Sandeep Anand & Mr. Saurabh Kesharwani for delivering such a nice lecture.

**Title of the lecture:** GaN based high frequency compact DC-DC converter

**Abstract of lecture:** Low voltage dc distribution systems found in modern space and aeronautical applications, supply power to many critical electronic loads, often times employing the use of single-input, multi-output converters. Key challenges present in such systems is the voltage step-down necessary to drive low voltage, high current loads, and wide input voltage ranges. Many of these applications are also constricted by size and weight. Gallium Nitride (GaN), a member of the wide band gap semiconductor family, is a state of the art enabling technology with a high figure of merit compared to traditional silicon devices making it possible to increase converter system efficiency and reduce system size.

This presentation would focus on increasing the power density of dc-dc converters. It would start with the basics of high gain dc-dc converters and GaN High-Electron-Mobility Transistor (HEMT). Topics related to circuit topologies, efficiency and power density would be discussed. The solutions to some of the problems, found at Power Electronics for Renewable Integration (PERI) Lab, at Indian Institute of Technology (IIT) Kanpur, India, would be presented. Joint projects carried out with the participation of various Industries in this area, would also be discussed

**Biography of Expert :** Sandeep Anand (S'10–M'13–SM'16) received the B.Tech. and Ph.D. degrees in electrical engineering from the Indian Institute of Technology (I.I.T.) Bombay, Mumbai, India, in 2007 and 2013, respectively. He has previously worked with Emerson Network Power, Mumbai, India, and Cosmic Circuits Pvt. Ltd., Bengaluru, India. Since 2013, he is an Assistant Professor at I.I.T. Kanpur. He was a visiting faculty at Washington State university (WSU), Pullman, WA, US for Summer 2018. His research interests are reliability of power electronic converters, integration of renewable sources and use of GaN HEMT for power electronics.

More about his research is available at <https://www.perilab.org/> and <http://home.iitk.ac.in/~asandeep/CV.html>

*Some of the photos of the event:*





Gifted by Dr. Arif Iqbal, Assistant Professor, EED

### c) Department of Information Technology:

#### 1. Mr. Prince Rajpoot, Assistant Professor:

Organized the one day workshop on “Machine Learning using Python” with Softpro Ltd.

#### 2. Ms. Kumkum Dubey, Assistant Professor (Contractual):

Organized the ICT mode Short term course of NITTTR Chandigarh on “Next Generation Wireless Networks”.

Edited & Compiled  
by  
Brijesh Kumar Verma

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Librarian, Knowledge Centre (Central Library), REC Ambedkar Nagar-224122 U.P. India.

#### Feedback / Suggestions

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