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An Expert Lecture on “Anti-Islanding Protection of Distributed Generation System”

Department of Electrical Engineering organized an expert lecture on “Anti-Islanding Protection of Distributed Generation System” on 18th Nov 2019 in association with Dr. Sanjay Agrawal, REC Ambedkar Nagar, AKTU, Uttar Pradesh, India. The main objective of the expert lecture is to provide the opportunity to the students (B. Tech, EE) to get knowledge of Anti-Islanding protection of distributed generation system, which is an emerging technology in the field of power system protection. The session began with the welcome address and introduction of Dr. Sanjay Agrawal, by the Head of the Department, Electrical Engineering, Dr. Niraj Kumar Shukla.

Glimpse of Expert Lecture

In the lecture, Dr. Sanjay Agrawal explained various types of distribution generators and the role of anti-Islanding protection method for the protection of distributed generation system. Dr. Agrawal pointed out that Islanding can be dangerous to utility workers, who may not realize that a circuit is still powered, for that reasons, distributed generators must detect islanding and immediately disconnect from the circuit; this is referred to as **anti-islanding**.

He thanked the Management for providing the platform to organize expert lectures on innovative technologies. He appreciated Faculty members and students for the successful conduction of the event.



Industry Institute Interaction Programme

An “Industry Institute Interaction Programme” was organized by department of Electrical Engineering, Shambhunath Institute of Engineering and Technology (SIET) on 25th - 30th March 2019. The resource person exposed the extremely relevant and increasing importance of Industry 4.0 in manufacturing industries for a multitude of reasons which are useful for employment in industries.

The Electrical Engineering department also provides regular industrial interaction like NTPC Unchahar, Godrej Pune, BHEL Haridwar, Indian Railways, Orbit Cables and many more to our students which helps them to improve the awareness about the working culture of industries. Such regular industrial visits help to bridge the gap between the academics and industry.



Report on Energy Conservation

Petroleum Conservation Research Association Organized an Institutional Training Programme in Shambhunath Institute of Engineering and Technology on “Energy Conservation” on 19. Feb.2020. The training program was undertaken by **Er. Ashwani Gupta [Faculty, Petroleum Conservation Research Association]** and **Mr. Rajeev Gupta [Ex. GM, ALSTOM]**. Their conspicuous efforts made the participants to understand about the need of Energy Conservation. In this session they told our students about the rising demand of energy and availability of conventional resources and how energy is now recognized as an essential measure for Socio -Techno -Eco development of any system. They also Prompted our Engineers and Technologists to engrossed their attention on accepting challenges of rising demand of Energy need, any further delay. The training program was attended by the faculty members and students of Electrical Engineering department.



Faculty Publications

International Journals

- Niraj Kumar Shukla, Kumar Shantanu, Kuldeep Kumar Singh, Rajeev Srivastava, “Energy Saving of Induction Motor Drive Using Artificial Intelligence Based Controllers”, International Journal of Control and Automation (IJCA), Volume 13, No.2 (2020), Pages: 652-664, ISSN: 2005-4297.

Faculty Participation in FDP's

- Mr. Niraj Kumar Shukla, Attended Faculty Development Program on “Smart Devices and Intelligent Systems (SDIS-2020)” sponsored by AKTU Lucknow under TEQIP-III scheme at Rajkiya Engineering College Sonbhadra during January 27th -31st, 2020.
- Mr. Niraj Kumar Shukla, Attended a one-week workshop on “Solar Photo-Voltaic Applications & Its Future Scope” at SHUATS Prayagraj during October 14th -18th, 2019.
- Mr. Kuldeep Kumar Singh, Participated in AICTE sponsored one-week short term training programme (STTP) on “Advanced Next Generation Wireless technology” organized by department of Electronics and Communications U.C.E.R on 20-07-2020 to 25-07-2020.

- Mr. Vikash Kumar Goutam, Attended One Week Faculty Development Programme on “Entrepreneurship Development” organized by Department of Computer Science & Engineering under TEQIP-III Scheme at Shambhunath Institute of Engineering and Technology, Allahabad from 01.07.2019 to 05.07.2019.
- Mr. Vikash Kumar Goutam, Attended Eight-day Faculty Development Program (Refresher Workshop) on “Universal Human Values and Professional Ethics” organized by TEQIP-III and conducted by Value Education Cell, AKTU Lucknow at Shambhunath Institute of Engineering and Technology, Allahabad from 08.07.2019 to 15.07.2019.
- Mr. Ajeet Kumar Rawat, attended short term course on “NBA Accreditation through Outcome Based Education” held at NITTTR, Chandigarh during July 15-19, 2019.
- Mr. Ajeet Kumar Rawat, attended short term course on “MATLAB Programming”, held Online at NITTTR, Chandigarh during May 11-15, 2020.
- Mr. Ajeet Kumar Rawat, attended short term course on “Modeling and Simulation using MATLAB”, held Online at NITTTR, Chandigarh during May 18-22, 2020.
- Mr. Ajeet Kumar Rawat, attended short term course on “Outcome Based Curriculum”, held Online at NITTTR, Chandigarh during May 25-29, 2020.
- Mr. Ajeet Kumar Rawat, attended short term course on “Real World Applications of Microcontrollers”, held Online at NITTTR, Chandigarh during June 15-19, 2020.
- Mr. Ajeet Kumar Rawat, attended short term course on “Artificial Neural Networks and Fuzzy Logic”, held Online at NITTTR, Chandigarh during June 22-26, 2020.
- Mr. Kumar Shantanu, attended five Days FDP on “Entrepreneurship Development” in SIET Allahabad from 1st July to 5th July 2019

Workshops Attended by Faculty

- Mr. Niraj Kumar Shukla, attended Faculty Development Program on “HUMAN VALUES AND PROFESSIONAL ETHICS” organized by AKTU, Lucknow during July 08th -15th, 2019.
- Mr. Ajeet Kumar Rawat, Attended Two days’ Workshop on “NBA Accreditation and Outcome-Based Education”, during January 29-30, 2020, Organized by The State Project Implementation Unit-UP & Dr. APJ Abdul Kalam Technical University, at UPID, AKTU Noida Campus.

Webinars Attended by Faculty

- Mr. Niraj Kumar Shukla, attended webinar on "Energy regulations webinar: Challenges to energy regulations beyond corona 2020" Hosted by IEEE Uttar Pradesh Section (India council) on 24th May 2020.

Faculty Industrial Training

- Mr. Vikash Kumar Goutam, Attended Institutional Training Programme on “Oil Conservation” organized by Petroleum Conservation Research Association at Shambhunath Institute of Engineering and Technology, Allahabad on 19.02.2020.
- Mr. Niraj Kumar Shukla, attended institutional training programme on “Oil Conservation” organized by Petroleum Conservation Research Association on 19th February 2020.

- Mr. Ajeet Kumar Rawat, Attended Two Weeks Advance Online Training Program on “Hardware in the Loop Simulation Technology for Rapid Product Design in Electrical Engineering”, during June 01-13, 2020, Organized by Atal Incubation Centre-EMPI New Delhi in Collaboration with Quarbz Info System, Kanpur, and Typhoon HIL GmbH, Switzerland.

Student Achievements

- A project entitled “**AUTOMATED DRONE WITH FAIL-SAFE MODE**” was designed by the final year students of Electrical Engineering Department (**Aditya Kulshetra, Prateek Tiwari, Shiv Prasad Yadav, Vaishnavi Srivastava**) under the guidance of **Asst. Prof. Niraj Kumar Shukla**. The project got **1st Position in Cluster 2 for Prototype category held on 12th April 2019 at AKTU Campus, Lucknow Uttar Pradesh**.



Top view of the model



Front view of the model

A quadcopter can achieve vertical flight in a stable manner and be used to monitor or collect data in a specific region. Technological advances have reduced the cost and increase the performance that allowed the general public to develop their own quadcopter. The goal of this project is to build, modify, and improve an existing quadcopter kit to obtain stable flight, gather and store GPS data, and perform auto commands, such as auto-landing. In this project have used components that included a frame, motors, electronic speed controllers, power distribution board, batteries, a transmitter, a receiver, a GPS module and a camera.



Winning team members with CAO and Faculty Members

- A project entitled “**SOLAR E-BICYCLE**” was designed by the final year students (2016-2020) of Electrical Engineering Department. This project was selected for the **National Convention of the 3rd AICTE - Chhatra Vishwakarma Awards 2019**.



Team members at AICTE Chhatra Vishwakarma Awards

PLACEMENTS

A total of 07 students of B.Tech. (EE) are placed in software and hardware companies like RIALTO ENTERPRISES PVT. LTD., HCL TECHNOLOGIES, IGT SOLUTIONS, JUSTDIAL LTD. during Academic Year 2019-2020.

PLACEMENTS REPORT ACADEMIC YEAR 2019-2020				
S. No	Name	Roll Number	Company	Pay Package
1.	Avaneesh Kumar Pandey	1616220013	RIALTO ENTERPRISES PVT. LTD.	1.84 LPA
2.	Rohit	1616220036	HCL TECHNOLOGIES	3.25 LPA
3.	Shubham Siddhant	1716220908	IGT SOLUTIONS	2.40 LACS CTC
4.	Shivendra Srivastav	1616220043	JUSTDIAL LTD.	3.08 LPA
5.	Abhishek Kumar	1616220003	JUSTDIAL LTD.	3.08 LPA
6.	Anand Pandey	1716220801	JUSTDIAL LTD.	3.08 LPA
7.	Himanshu Gupta	1616220018	JUSTDIAL LTD.	3.08 LPA

