AICTE – Training and Learning
(ATAL) Academy

CALL FOR REGISTRATION AND PARTICIPATION

Online

One Week Faculty Development Programme

on

Energy Management & Planning in Smart Cities for Sustainable Development (EMPSSD-2021)

September 20-24, 2021

Organized by

Department of Electrical Engineering

Rajkiya Engineering College Sonbhadra

231206, U.P., India

www.recsonbhadra.ac.in

ABOUT AICTE ATAL Programme

AICTE Training and Learning (ATAL) Programme is an initiative by AICTE which aims at empowering faculty to achieve goals of Higher Education such as access, equity and quality. This programme is designed to fulfill the need to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. It was felt that Training with latest tools and technologies is vital to keeping an institute competitive and more productive. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. It also transforms them to harmonize with society and most importantly to make them a good citizen of the country.

Objective of ATAL Academy:

- To set up an Academy which will plan and help in imparting quality technical education in the country
- To support technical institutions in fostering research. innovation and entrepreneurship through training
- To stress upon empowering technical teachers & technicians using Information & Communication Technology
- To utilize SWAYAM platform and other resource for the delivery of trainings.
- To provide a variety of opportunities for training and exchange of experiences. Such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes.
- To support policy makers for incorporating training as per requirements

About Rajkiya Engineering College Sonbhadra (REC- Sonbhadra)

Rajkiya Engineering College, Sonbhadra was established by the Government of Uttar Pradesh in the year 2015 with one branch, Computer Science & Engineering with annual intake of Sixty (60). Later on, in 2016 two new branches Electrical Engineering and Electronics Engineering with intake of 60 each have been started. The college has been shifted to its own fully residential campus located at Churk, Robertsganj, Sonbhadra in the month of July 2017 and all academic activities from the session 2017-18 are conducted from its own campus. The fully residential campus consists of two Academic Buildings, Administrative building, Workshop, Hostels (Boys and Girls), Student Activity Centre, College Canteen, Grocery Store, round the clock Wi-Fi, electricity & water supply and other facilities for recreation.

About Electrical Engineering Department

The Departments of Electrical Engineering was established in 2016. The departments have highly qualified, committed and well experienced faculty members with various specializations. The faculties are involved in organizing and participating in several seminars, conferences and workshops in addition to their academic responsibilities. They have also published research papers in various national and international journals, presented papers in conferences in India. Over the years, the departments have become a center of excellence, providing in- depth technical knowledge and opportunities for innovation and research, with well -equipped computer facilities and smart class room.

Objective of Course:

The objective of this online FDP is to promote basic and advanced research related to energy management & planning in Smart City and its application for sustainable developments.
Smart city is relatively a new concept intended to deal with or mitigate through the highest efficiency and resource optimizations, the problems generated by rapid urbanization and population growths, such as energy supplies, waste management and mobility. Planning and operation models within the smart city by classifying their scope in to the main intervention areas: The study allows to develop a complete and adequate smart city energy management model, one that will be accessed both government, and industry to implement the best systems at minimum cost fostering smarter and more efficient cities, been a leading solution for electrified/green transportation, renewable power grid, consumer electronics, etc. for sustainable development.

Course Content:

Introduction to energy storage devices and sustainable development, Energy management/control techniques, Energy storage modeling, Generation and Integration of Renewable Energy sources in smart cities, Smart Energy Automation and Electric Mobility in a Smart City, Gird Infrastructure and Demand based response in Smart city, IOT based Home Energy Management in Smart city, Energy storage technologies for Smart cities.

Hands on Session:

Energy management of hybrid energy storage-based systems and Implementation of MPPT in energy storage-based PV systems with Industry Expert.

Target Audience:

Faculty Members, Research Scholars, Master Research Students and Industry Professionals

How to apply? https://atalacademy.aicte-india.org/login

Registration Fee: There is no fee to attend this FDP

Important Information to Participants:

Shortlisted candidates will be informed through their email. On completion of the course an objective/quiz-based assessment of all participants will done. Those who have an attendance of minimum 80 % and score more than 60% in the test will be issued a digital certificate by the ATAL Academy.

Chief Patron

Prof. Vineet Kansal
Hon`ble Vice Chancellor
Dr. A.P.J. Abdul Kalam Technical University, Lucknow

Patron

Prof. Geetam Singh Tomar
Director, REC Sonbhadra

Coordinators

Dr. R.K. Patel
&
Dr. Vijay Pratap Singh
Assist. Prof., REC Sonbhadra

Organizing Secretaries

Mr. Umesh Gupta, Assist. Prof. EED
Dr. T. Chiranjeevi, Assist. Prof. EED
Mr. Ram Ishwar Vais, Assist. Prof. EED

Organized by:

Department of Electrical Engineering
Rajkiya Engineering College Sonbhadra
(An Associated College of Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Code-841)

Contact Person:

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LIST of Tentative SPEAKERS:

SS:	**Prof. Sri Niwas Singh, Department of EE, IIT Kanpur**
RKM:	**Prof. R.K. Mishra, Department of EED, IIT, BHU, Varanasi**
RKB:	**Prof. Ranjan K. Behra, Department of EED, IIT Patna**
SC:	**Prof. Saikat Chakraborty, Department of EED, IIT Kanpur**
NK:	**Prof. Nand Kishor, Department of EED, MNNIT, Allahabad**
RS:	**Prof. Ravindra Kumar Singh, Department of EED, MNNIT, Allahabad**
AKS:	**Prof. Ashish Kumar Singh, Department of EED, MNNIT, Allahabad**
SRM:	**Dr. Soumya Ranjan Mohanty, Department of EED, IIT, BHU, Varanasi**
VNL:	**Dr. Vivek Nandan Lal, Department of EED, IIT, BHU, Varanasi**
VPS:	**Dr. Vijay Pratap Singh, Department of EED, REC Sonbhadra**
NS:	**Dr. Navdeep Singh, Department of EED, MMMUT, Gorakhpur**
PD:	**Ms. Priyanka Dare, TCS consultant, Stress and Yoga Management**
SS:	**Mr. Shashank Singh, Typhoon Hill, Industry**
PESN:	**DR. P.E.S.N. Raju, OPEL RT Technologies, Bangalore, Industry**

DEPARTMENT OF ELECTRICAL ENGINEERING

RAJKIYA ENGINEERING COLLEGE SONBHADRA

Online FDP on

Energy Management & Planning in Smart Cities for Sustainable Development

Proposed Date:20-09-2021-24-09-2021

Tentative Schedule

Date	20-09-2021	21-09-2021	22-09-2021	23-09-2021	24-09-2021
Day	Monday	Tuesday	Wednesday	Thrusday	Friday
Time	Day1	Day2	Day3	Day4	Day5
10:00-11:30	Inaugral Session	SESSION 3 *Topic: Energy Mangement/ Control Techniques in Smart Cities*	SESSION 6 *Topic: Automation and Electric Mobility in a Smart Cities*	SESSION 9 *Topic: Genertaion and integration of renewable energy resources in smart cities.*	SESSION 12 *Topic: Grid Infrastructure and demand based response in smart cities.*
11:30-12:00	TEA BREAK				
12:00-13:30	SESSION 1 ***Topic: Introduction to Energy management and Sustainable Devlopement***	SESSION 4 *Topic: IoT based home energy management in smart cities*	SESSION 7 *Topic: Energy storage modelling*	SESSION 10 *Hands on Experience* Energy managenment of hybrid energy storage based system	SESSION 13 *Topic: Energy management in EV/PHEV*
13:30-14:30	LUNCH				
14:30-16:00	SESSION 2 Topic: *Energy Management and Planning in Smart Cities*	SESSION 5 *Topic: Energy storage technologies for smart cities*	SESSION 8 *Topic: Smart Grid Overview with Indian Scenario*	SESSION 11 *Role of Artificial Intelligence in Smart Cities :Future Prospect and Challenges*	SESSION 14 *Topic: Stress Management & Yoga*
16:00-16:15	TEA BREAK				QUIZ
16:15-16:30					Valediction