

Faculty Development Programme



Sponsored by

Dr. A.P.J. Abdul Kalam Technical University, Lucknow (U.P.)

On

“Adaptive Neural Fuzzy Inference System (ANFIS) & its Applications”

From 10th July to 14th July 2017

Organized by

Department of Electrical & Electronics Engineering
at

KIET Group of Institutions, Ghaziabad



Organizing Committee

Patron
Prof. (Dr.) J. Grish

Co-ordinator
Prof. (Dr.) Neeraj Kumar Gupta

Organizing Secretary
Prof. Arun Kumar

Eligibility & Registration Details

All the faculty members working in AICTE recognized Colleges

- **Last Date of Registration:** 30th June, 2017.
- **Maximum permissible number of participants :** 60 (first cum first registration)
- **Registration Fee:** Rs 2000/-
- **Registration :** On receipt of scanned copy of duly filled in Registration form along with proof of payment of registration fee at kietfdp2017@gmail.com
- **Mode of Payment:** Payment can be made by **Cheque/DD** in favour of **KIET Group of Institutions**, payable at **Ghaziabad** or **Online transaction** can be made on the following accounts details:-
A/C Holder Name: **KIET Group of Institutions**
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Bank Name and Address: **KOTAK MAHINDRA BANK, GHAZIABAD**
IFSC Code: **KKBK0005295**

Participants are requested to mention “ANFIS” in message box for online payment

About The Institute

The KIET Group of Institutions is located on NH 58 about 30 Kms from Delhi on Delhi - Meerut highway. Its 18.5 acres of area houses eight academic Departments that cater to the needs of the students. The Institute offer under graduate degree courses in eight disciplines i.e., Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Information Technology, Mechanical Engineering, Civil Engg and Electronics & Instrumentation, B. Pharma. Besides these, M.Tech (in EN, ECE, CS & ME), MCA, MBA and M. Pharma, courses are also offered to the students KIET is accredited by NAAC with 'A' for 5 years.

About The Department

The Department of Electrical and Electronics Engineering was established in KIET, Ghaziabad in the year 1998 to impart quality education to the budding Engineers interested in this field. The department is currently offering B.Tech. course in Electrical and Electronics Engineering and Masters Program in Power Electronics and Drives. The strength of the department is its highly qualified and experienced faculty and staff members with state-of-the-art laboratories. The Department has installed an advance Computational Intelligence laboratory which is first of its kind in the western UP. Other laboratories like Basic Electrical Engineering Lab, Power Electronics & Drives Lab and Machines Labs have also been modernized with new equipments. This gives a scope to the students to handle and perform the experiments individually, which enhance their confidence to face the practical problems in the field of engineering.

The Department has seven research groups to encourage the students in research activities in the field of their interest. Dedicated hobby club and electrical workshop provide necessary environment for R & D work. In order to keep the students in pace with the latest trends in technology, the department organizes lectures by eminent scientists, academicians of international repute and experts from industries on regular basis. For further boosting this effort, the department organizes an international conference "Innovative Applications of Computational Intelligence on Power, Energy and Controls with their Impact on Humanity" (CIPECH) during every alternate year since 2014. Due to the relentless efforts in the field of research and development, the department has been designated as research centre by the university. The Department is accredited by NBA in year 2005, 2009 and 2015.

In a nutshell, the department is well equipped to cater the needs of education for the career enhancement of students in both technical as well as social aspects.

About The Course

New advancement in the technology are causing large impacts on environmental, social, and political conditions in most of the developing countries worldwide. Neural and Fuzzy technologies have tremendous potential to provide solutions to the complex problems related to engineering, medical and social science. The technology related problems, particularly in case of consumer goods can be solved by using Neural and fuzzy technology effectively. The FDP on ANFIS and its application will provide a general understanding of this fastest emerging technology.

Course Objective

The objective of the FDP is to motivate and equip the participants with the basics as well as the recent state-of-art of fuzzy sets, fuzzy logic, neural network as well as to expose the faculty members with the newer dimensions of the area with their practical approaches to tackle the real life problems in engineering, medical and social sciences & other related disciplines so that the participants can take up various challenges of the present day to day societal problems for their acceptable logical solutions.

Course Outcomes

The programme will provide the participants with general understanding of soft computing methodologies, including artificial neural networks, fuzzy sets and fuzzy logic systems, hybrid neuro-fuzzy systems and analyze the applications of fuzzy logic control to real time systems, Which in turn will impart this knowledge to the students for their professional and career advancement.

List of Eminent Speakers

Dr. B. K. Panigrahi, IIT Delhi
Dr. A. Q. Ansari, JMI Delhi
Dr. Ravinder Singh, Scientist, DRDO, Delhi
Dr. Muktiyar Singh, DTU, Delhi
Dr. Arun Sharma, GGSIPU, Delhi
Dr. Anil Ahlawat, KIET, Ghaziabad
Dr. Neeraj Kumar Gupta, KIET, Ghaziabad
Dr. Vineet Sharma, KIET, Ghaziabad

Course Content

- Introduction, Architecture and Application of Neural Network in different areas of Electrical Engineering
- Fuzzy Logic, Fuzzy Inference System and Application of Fuzzy in different areas of Electrical Engineering
- Adaptive Neuro-Fuzzy Modeling
- Application of ANFIS

Acknowledgement

The organization want to acknowledge Ho'ble Vice chancellor, Prof. Vinay Kumar Pathak for his continuous support towards academic excellence.

For Correspondence

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Prof. Anmol Gupta
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Accommodation

It may be arranged based on request from participants. Only limited seats are available.

REGISTRATION FORM
FACULTY DEVELOPMENT PROGRAMME
(Sponsored by Dr. A.P.J. Abdul Kalam Technical University, Lucknow (U.P.)
Organized by KIET Group of Institutions

On
“Adaptive Neural Fuzzy Inference System (ANFIS) & it’s Applications”

10th July to 14th July 2017

1. Name Dr./Mr./Ms. _____

2. Designation: _____

3. Name of Department: _____

4. Name of University/Institute: _____

5. Address for Correspondence: _____

Phone No(if any): _____ Mobile No.: _____

E-Mail: _____

6. Accommodation required (YES/NO): _____

7. Date of Birth: _____

8. Qualification: _____

9. Area of Specialization: _____

10. Payment Details: _____

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(Signature of the applicant)

Date:

Signature

Head of the Institute/Dept.

(With Seal)