

# Electronics and ICT Academy at National Institute of Technology Patna

Setup under Scheme of

Department of Electronics and  
Information Technology, (DeitY)  
Ministry of Communications and IT,  
Govt. of India

Proposes  
A  
Training Program  
on  
Fuzzy Logic and its Applications

Duration: 14/03/2016 to 18/03/2016



## Chief Investigator

Prof. (Dr.) Asok De, Director  
NIT Patna

Coordinator: Dr. J. P. Singh  
Assistant Professor, Dept. of CSE

Co-coordinator: Dr. S. Tripathi  
Assistant Professor, Dept. of CSE

## About NIT Patna

National Institute of Technology Patna is the 18<sup>th</sup> National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28. 01. 2004. The institute has highly qualified faculty of higher caliber in various disciplines. Institute offers B.Tech, M.Tech & Ph.D. programs in respective field of Engineering, National Institute of Technology Patna aims at setting out very high education standards and holds long record of academic excellence. Sciences and Technology with well-equipped laboratories.



## About Electronics and ICT Academy

DeitY has sponsored a scheme entitled "Scheme of Financial Assistance for setting up of Electronics and ICT Academies". The objective of the above scheme is to set up seven (07) Electronics and ICT Academies as a unit in IITs, NITs, and IIITs etc. for faculty/mentor development/up-gradation to improve the employability of the graduates/ diploma holders in various streams, through collaboration of States/Union Territories with financial assistance from the Central Government. Electronics and ICT Academy would aim to provide specialized training to the faculties of Engineering, Arts, Commerce & Science colleges, Polytechnics etc., by developing state-of-the-art facilities. The Scheme has been

approved on 14.11.2014. Subsequently, an Empowered Committee under the chairmanship of Secretary, DeitY has accorded approval for setting up Academy in NIT Patna (Bihar).

## Course Duration

Theory+Practicals-25 Hours + 15 Hours

## Course Objective

The main objective of this course is to provide theoretical and practical concept of fuzzy set and fuzzy logics. The participants will learn how to choose the appropriate fuzzy set and algorithm design method for a specified application.

## Topic Covered

- What Fuzzy logic is?
- Fuzzy sets
- Operations between sets
- Fuzzy relations
- fuzzy If – Then rules
- fuzzy mapping rules.
- fuzzy implication functions
- Applications

## Course Outcomes

On completion of this course, participants are expected to be capable of understanding the basics of Fuzzy sets and fuzzy logic. The applications of fuzzy logic and how they can be used.

## Resource Persons

- **Prof. Paramartha Dutta, Visva-Bharati University,**
- **And many other faculty members from IISc, ISI, IIT, NIT and other reputed institutes and industries.**

**Course Fees**  
**INR 2500/-**

**The draft should be in the name of**

The Director, NIT Patna  
Payable at Patna

**The Completed registration form along with the draft should be send to**

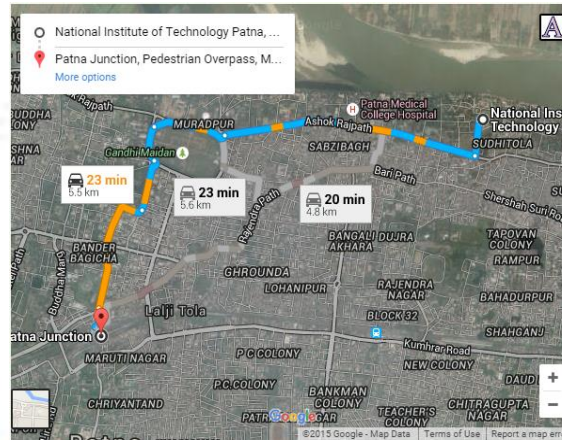
Dr. J. P. Singh  
Dept. of CSE, NIT Patna,  
Ashok Rajpath  
Patna -800005, Bihar

**Last date of Registration**  
**13<sup>th</sup> March 2016**

**Venue: NIT Patna**

**How to Reach NIT Patna**

The institute is situated on the south bank of holy river Ganga behind Gandhi Ghat. The Institute campus is 8 km from the Patna Junction railway station and 15 km from the Jai Prakash Narayan International Airport Patna.



**For query contact:**

**Name: Dr. J. P. Singh/ Dr. Sudhakar  
Tripathi**

**Email ID: [ips@nitp.ac.in](mailto:ips@nitp.ac.in)/  
[stripathi.cse@nitp.ac.in](mailto:stripathi.cse@nitp.ac.in)**

**Accommodation**

We will provide hostel accommodation in the campus to the participants on payment basis.

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**1. Name (Block Letters)\_\_\_\_\_**

**2. Educational Qualification:\_\_\_\_\_**

**3. Designation:\_\_\_\_\_**

**4. Name of the institute:\_\_\_\_\_**

**5. Address for Communication:\_\_\_\_\_**

**6. E-mail:\_\_\_\_\_**

**7. Phone/Mobile:\_\_\_\_\_**

**8. D.D No.:\_\_\_\_\_ Date:\_\_\_\_\_**

**Bank name:\_\_\_\_\_**

**Amount (Rs.)\_\_\_\_\_**

**Date:**

**Signature:**



Department of Higher Education, Government of India  
Ministry of Education and Skill Development  
New Delhi-110 022



All India Council of Technical Education



**ELECTRONICS AND ICT ACADEMY  
NIT PATNA**

