

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

Data Structures and Algorithms

Duration: 15/12/2015 to 24/12/2015



Chief Investigator

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

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

Co-coordinator: Dr. J. P. Singh
Assistant Professor, Dept. of CSE

About NIT Patna

National Institute of Technology Patna is the 18th 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-50 Hours + 30 Hours

Course Objective

The main objective of this course is to provide theoretical and practical concept along with uses of data structures and algorithms. The participants will learn how the choice of data structures and algorithm design methods impacts the performance of programs. How to choose the appropriate data structure and algorithm design method for a specified application.

Topic Covered

- Basic Linear Data Structure (Array, Linked List etc).
- Basic Linear Data Structure (Tree, Graphs etc)
- Basic Algorithms design Techniques
- Divide and Conquer
- Greedy Technique
- Dynamic Programming.
- Backtracking
- P-NP Problems

Course Outcomes

On completion of this course, participants are expected to be capable of understanding the Data Structures and Algorithms, their advantages and drawbacks, how to implement the same their known Programming languages, how their drawbacks can be overcome and what the applications are and where they can be used.

Resource Persons

- Prof. Subhansu Bandyopadhyay, (Calcutta University)
- Prof. K. K. Biswas, (IIT Delhi)
- Prof. Sandeep Sen (IIT Delhi)
- Prof. Swapan Bhattacharya (NITK Surathkal)
- And many other faculty members from IISc, ISI, IIT, NIT and other reputed institutes and industries.

Course Fees

INR 1500/-

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

Last date of Registration

14th Dec 2015

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. M. P. Singh/ Dr. J. P. Singh
Email ID: mps@nitp.ac.in, jps@nitp.ac.in

Accommodation

Due to massive renovation work going on in NIT Patna, we will not be able to provide any accommodation in the campus to the participants. The participants have to make their own arrangement.

A Training Program on Data Structures and Algorithms

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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: