

**AICTE Training and Learning
(ATAL) program
on
Artificial Intelligence
at
National Institute of Technology
Patna**

Duration: December 02 – 06, 2019



Patron: Prof P K Jain,
Director, NIT Patna

Coordinator: Dr. M. P. Singh
Associate 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.

Course Duration

14 sessions in 5 days programme
Theory+Practicals: 25 Hours

Course Objective

The main objective of this course is to provide theoretical and practical concept of Artificial Intelligence. The participants will learn: understand importance of AI, search technique for AI, Solve AI problems through programming with Python, Learning models, etc.

Topic Covered

- Search graph and Search tree
- Search Algorithms
- Probabilistic Reasoning
- Markov Decision Process
- Reinforcement Learning
- Python Programming Language during Lab Session

Course Outcomes

On completion of this course, participants are expected to be capable of understanding the basics of AI, applications of AI, how they can be used, analyse the dataset by using learning methodologies/Algorithms. Solve AI problems through programming with Python.

Resource Persons

- Dr. M P Singh, CSE, NIT Patna
- Dr. J. P. Singh, CSE, NIT Patna
- Dr. Akshay Deepak, CSE, NIT Patna

No Registration Fee

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

1st December 2019

Venue: Computer Center, 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
Email ID: mps@nitp.ac.in

Registration Form

You can submit the form through link
given below:

<https://forms.gle/rSKyq7xst5hPTYDh7>

National Institute of Technology Patna

Department of Computer Science and Engineering

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Schedule plan

Dates	10:00 AM to 11:30 AM	11:30 AM to 12.00 PM	12.00 PM to 1.30 PM	1.30 PM to 2:30 PM	2:30 PM to 4.00 PM	4:15 PM to 4:45 PM
02/12/2019	Registration and Inauguration	High Tea	Session 1 Introduction to AI Dr. M. P. Singh Associate Professor	Lunch	Session 2 Search graph and Search tree I Dr. J. P. Singh Assistant Professor	Tea
03/12/2019	Session 3 Introduction to Probabilistic reasoning Dr. A. Deepak Assistant Professor	Tea	Session 4 Search graph and Search tree II Dr. M. P. Singh Associate Professor	Lunch	Session 5 Search graph and Search tree III Dr. J. P. Singh Assistant Professor	Tea
04/12/2019	Session 6 Bayesian Networks Dr. A. Deepak Assistant Professor	Tea	Session 7 Game Search Dr. M. P. Singh Associate Professor	Lunch	Session 8 Lab I Dr. J. P. Singh Assistant Professor	Tea
05/12/2019	Session 9 Hidden Markov model Dr. J. P. Singh Assistant Professor	Tea	Session 10 Introduction to Reinforcement Learning Dr. A. Deepak Assistant Professor	Lunch	Session 11 Lab II Dr. M. P. Singh Associate Professor	
06/12/2019	Session 12 MDP formulation Dr. J. P. Singh Assistant Professor	Tea	Session 13 Active reinforcement learning Dr. A. Deepak Assistant Professor	Lunch	Session 14 Lab III Dr. A. Deepak Assistant Professor	Valediction