

## FIVE DAYS AICTE TRAINING AND LEARNING FACULTY DEVELOPMENT PROGRAMME ON ARTIFICIAL INTELLIGENCE

### IMPORTANT DATES:

Programme Period: **20<sup>th</sup> September 2021 to 24<sup>th</sup> September 2021**

Last Date of Registration: **31<sup>st</sup> August 2021**

Intimation of Selection: **9<sup>th</sup> September 2021**

Confirmation by Participants: **11<sup>th</sup> September 2021**

**MODE of CONDUCT and REGISTRATION:** ONLINE and FREE



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AICTE, NEW DELHI under AICTE Training & Learning  
(ATAL) Academy



**Jointly Organised by**

School of Computer Sciences, Kavayitri Bahinabai  
Chaudhari North Maharashtra University, Jalgaon, MS,  
India

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Assistant Professor  
School of Computer Sciences,  
Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

## ABOUT THE UNIVERSITY:

The Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon (Formerly known as North Maharashtra University, Jalgaon) established on 15th August 1990 under the Maharashtra Universities Act, XXIX of 1989, started its academic and administrative functioning from the academic year 1991-92. Within the span of 3 years, the University is recognized under section 2 (f) in 1991 and 12 (B) in 1994 under the University Grants Commission (UGC) Act, 1956. The jurisdiction of the University is extended over three districts i.e., Jalgaon, Dhule and Nandurbar, a pre-dominantly tribal and rural area of Khandesh region. The University has opened its doors of higher education to mostly “**first generation learners**” of this area. **Access, equity, and academic excellence are the thrust areas of the University’s educational endeavour.**

## ABOUT THE SCHOOL:

The School of Computer Sciences encompasses three departments viz. **Department of Computer Applications, Department of Computer Science, Department of Information Technology and UGC Computer Centre** and runs three courses under this departments M.C.A. and M.Sc. (Computer Science), M.Sc. (Information Technology). In a short span of time school has earned lot of reputation and popularity for providing latest, quality education and fulfilling growing needs for the skilled professionals, of the ever-changing Software Industry and the IT world.

The teaching and research accomplishments of the school has been duly recognised and special funding support under various lead-schemes have been received from UGC, DST, AICTE and ICSSR. The school has been recognized by the University Grants Commission (UGC) under its Special Assistant Programme (SAP) DRS-II.

The school maintain a very inducive, feel-at-home & open culture in the premise, because we believe in progressive unfoldment of the students towards becoming perfect IT professionals. The department not only provides the IT professionals but apart from regular studies, we cultivate the virtues of discipline, high Moral values, Competitiveness & Team spirit in our students, which leads to the overall personality development of the students.

## ABOUT THE COURSE:

Artificial Intelligence is a major step forward in how computer system adapts, evolves, and learns. It has widespread application in almost every industry and is a big technological shift, similar in scale to past events such as the industrial revolution, the computer age, and the smart phone revolution.

This course will give an opportunity to gain expertise in one of the most fascinating and fastest growing areas of Computer Science through ONLINE program that covers fascinating and compelling topics related to fundamentals of artificial intelligence and its applications in various areas like industry, defence, healthcare, agriculture, and many other areas. This course will give the audience a rigorous, advanced foundation in Artificial Intelligence.

## **COURSE CONTENTS:**

- Introduction to Artificial Intelligence
- Problem Formulations & Representations
- Search Algorithms
- Heuristic Search Algorithms
- Knowledge Engineering
- Probabilistic Reasoning
- Markov Decision Process
- Introduction to Genetic Algorithms
- Introduction to Machine Learning
- An Overview about Fuzzy Logic Systems
- Reinforcement Learning
- Scope & Future of AI
- Hands on Sessions

**RESOURCE PERSONS:** The sessions will be handled by experts from academia, research organizations and industry in the subject area.

**TARGETED PARTICIPANTS:** Faculty/Research Scholars/PG students from Universities/ AICTE recognized Institutions are only eligible.

## **GUIDELINES:**

- No participant fees will be collected.
- The mode of conduct for faculty development programme will be ONLINE only.
- Faculty/Research Scholars from Universities/AICTE recognized Institutions are only eligible.
- Session time will be from 10 AM to 5:00 PM.
- Maximum number of participants is strictly 200.
- Eligible participants will be selected based on first come first serve basis and will be intimated by e-mail only.
- Coordinator's decision will be final regarding the selection of participants.
- The online test will be conducted at the end of program by School.
- Attendance will be compulsory for all sessions.
- The certificates will be issued to those participants with regular attendance and score minimum 60% marks in the test.

## **REGISTRATION PROCESS**

- Those who are willing to participate are requested to register at ATAL website: <http://atalacademy.aicte-india.org/signup>.
- Once Sign-in is successful, you can choose the workshop by clicking the "+" button of the workshop (Workshop Title-Artificial Intelligence, Organizing Institute-School of Computer Sciences). You will be automatically registered as a participant.

**REGISTRATION LINK:** <http://atalacademy.aicte-india.org/signup>.

## For Details Contact:

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Deputy Coordinator

ATAL Faculty Development Programme on Artificial Intelligence

School of Computer Sciences

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**0257-2257453 (Office)**

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**ON**  
**ARTIFICIAL INTELLIGENCE**

**TENTATIVE SCHEDULE AND SESSIONS:**

<b>FIVE DAYS AICTE TRAINING AND LEARNING FACULTY DEVELOPMENT PROGRAMME ON ARTIFICIAL INTELLIGENCE</b>			
<b>Days/ Sessions</b>	<b>Session-1</b>	<b>Session-2</b>	<b>Session-3</b>
<b>20/09/2021</b> Day-1	Introduction to Artificial Intelligence & AI Today	AI: Problem Formulations & Representations	NLP
<b>21/09/2021</b> Day-2	AI: Uninformed Search Algorithms	AI: Heuristic Search Algorithms	Lab Session on Search Algorithms using Python
<b>22/09/2021</b> Day-3	Knowledge Engineering	Probabilistic Reasoning	Lab Session on Logic Programming using Python
<b>23/09/2021</b> Day-4	Introduction to Genetic Algorithms	Overview about Markov Decision Process and Fuzzy Logic Systems	Lab Session on Python Implementation for Solutions using Genetic Algorithms
<b>24/09/2021</b> Day-5	Introduction to Machine Learning and Reinforcement Learning	Lab Session on Machine Learning using Python	Feedback and Valediction