

## **Patron**

**Hon'ble Dr. Manohar Chaskar**  
Vice Chancellor,  
SRTM University, Nanded.

## **Advisory Committee**

**Prof. D. D. Pawar**  
Registrar, SRTM University,  
Nanded.

**Prof. M. K. Patil**  
Dean, Sci. & Tech.  
SRTM University, Nanded

**Prof. S. J. Wadher**  
Director, IIL, SRTM University,  
Nanded.

**Dr. Girish V. Chowdhary**  
Director and Professor,  
School of Computational  
Sciences, SRTM University,  
Nanded.  
Email id: [girish.chowdhary@gmail.com](mailto:girish.chowdhary@gmail.com)

## **Contact**



**Course Coordinator :**  
**Dr. Archana H. Sable**  
(Associate Professor)  
School of Computational  
Sciences, SRTM University,  
Nanded.  
Email id:  
[srtmun.archana.sable@gmail.com](mailto:srtmun.archana.sable@gmail.com)



**Course Co-Coordinator**  
**Dr. S.R. Mekewad**  
(Asstt. Prof.)  
School of Computational  
Sciences, SRTM University,  
Nanded.  
Email id: [satishmekewad@gmail.com](mailto:satishmekewad@gmail.com)

## **About the Institute**

The Swami Ramanand Teerth Marathwada University was established at Nanded by bifurcating the Marathwada University, Aurangabad on 17th September 1994. Nanded is a district headquarters situated on the banks of Godavari River in Maharashtra state.

## **School of Computational Sciences**

The School of Computational Sciences was established with the inception of this University (1994). School offers P.G. programmes in M. Sc. (Computer Science), M. Sc. (Computer Application), M. Sc. (Data Science), M.C.A. and B.C.A. in Computer Sciences. The School of Computational Sciences is Research center for Computer Science Subject under Science faculty.



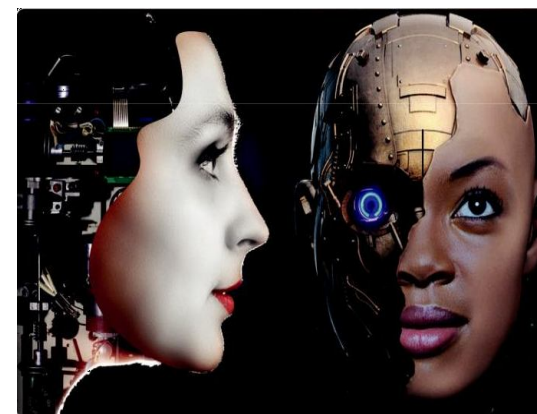
स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.



**AICTE Training and Learning  
(ATAL) Online 6 Day Faculty  
Training Programme 2024-25  
on**

## **AI/ML for Healthcare and IoT Applications**

6th-11th January 2025



Organized by:  
**School of Computational  
Sciences**  
**Swami Ramanand Teerth  
Marathwada University,  
Nanded – 431606.**  
(Maharashtra)  
Web: <http://srtmun.ac.in>

### About the Workshop

The FDP on AI/ML for Healthcare and IoT Applications Focuses on providing an introduction on the impacts of Deep Learning and Artificial Intelligence for various IOT and Computer Vision applications.

The FDP will help to disseminate the knowledge in the domain of Signal processing, ML and Deep Learning. It empowers the participants to understand how AI/ML, data science can be used to innovate and improve the business process.

Artificial intelligence (AI) has gained significant attention due to its widespread applications in various domains including designing of different IOT and CV based systems like health care, automation, smart cities, biometric and surveillances.

This course will give an opportunity to gain exposure in recent advances in IOT, signal processing and machine learning techniques, which are used in designing various AI- driven based systems.





This course aims to impart knowledge and train on fundamentals of engineering aspects of physiology and insights in recent IOT, Computer Vision and machine Learning techniques that can help participants in developing smart systems.

### Topics to be covered:

- ✚ Introduction to AI in healthcare Challenges
- ✚ Predictive Analytics in Healthcare
- ✚ Anomaly Detection Medical in Image
- ✚ Deep Learning for Classification and Segmentation
- ✚ Medical Image processing based classifier using deep learning project • Hand on session: Data acquisitions from Medical devices using Python
- ✚ IoT Architecture, Communication protocols, interconnections, embedded systems for real world problems (Microcontrollers, latest sensors, actuators and wireless communication technologies).
- ✚ Introduction of IoT and Applications in Smart city• Programming Tools for IoT, Smart IoT devices and applications, IoT cloud.
- ✚ IoT security issues Implementing IoT with Arduino and Introduction to• Raspberry PI, Machine Learning APIs in Cloud

### Resource Persons

Resource Persons from Universities, Industry within India as well as abroad with rich experience in Teaching, Research and Laboratory development will be handling the sessions.

	Name : Dr. Sultan S Alshamrani Designation: Associate Professor & HoD of Computer Science Taif University Industry: Taif University, University in Saudi Arabia Experience: 15 years
	Name : Aymen Muslih Al Hejri Designation: Faculty of Administrative and Computer Sciences Industry: University of Al baydha, Al baydha, Yemen Years of Exp: 13 years
	Name : Kailash Hambarde Designation : Postdoctoral Researcher Industry: University of Beira Interior, Portugal Experience: 9 years
	Name : Ashish Kolhe Designation: Director – OpenObserve Softwares Industry: OpenObserve Software Development, San Francisco, California Experience: 19 years

	<p>Topic: Machine Learning based classification modeling in healthcare.</p> <p>Name of the Expert: Tushar B. Kute</p> <p>Designation &amp; Organization: Sr. Data Scientist, MITU Research, Pune.</p> <p>Years of Exp: 20 years.</p>
	<p>Topic: Application of clustering models in healthcare.</p> <p>Name of the Expert: Rashmi R. Thorave</p> <p>Designation &amp; Organization: Managing Director, MITU Research and MITU Skillologies, Pune</p> <p>Years of Exp: 15 years.</p>
	<p>Name :Mr. Pradip Tivhare</p> <p>Designation:Lead Data Science Trainer at Byte Academy, Founder and CEO Industry: Bellora Intelligent Solution , Bengaluru, Karnataka, India</p> <p>Experience: 10 years.</p>
	<p>Name :Preetee Sonule</p> <p>Designation: Quality Assurance Analyst</p> <p>Industry: FIS Global Business Solutions India Private Limited</p> <p>Experience: 13 years.</p>

	<p>Name: Syeda Zeba Kauser</p> <p>Designation: Engineer-Implementation</p> <p>Industry: Sutherland Healthcare Global , Hyderabad</p> <p>Years of Exp: 11 years</p>
	<p>Name :Ramesh R. Manza</p> <p>Designation :Professor</p> <p>Industry:Department of Computer Science and IT, Dr. BAM University, Aurangabad MS</p> <p>Experience:25 years</p>
	<p>Name :Sanjay Talbar</p> <p>Designation :Professor</p> <p>Industry:SGGS Institute of Engineering and technology Nanded MS India</p> <p>Experience:35 years</p>
	<p>Name :Dr. Archana H Sable</p> <p>Designation : Associate Professor</p> <p>Industry: School of Computational Sciences, S.R.T.M.University, Nanded</p> <p>Experience:14 years</p>
	<p>Topic: Data Analytics using R</p> <p>Name of the expert: Dr Renuka R Londhe</p> <p>Designation and Organization: Assistant Professor and HoD</p> <p>Rajarshi Shahu Mahavidyalaya Autonomous Latur</p> <p>Years of Experience: 18 years</p>

### **Who should participate?**

The programme is open to the (Faculty/ Research Scholars/Students) members of AICTE/UGC approved Engineering Institution/ Universities /R&D Labs and persons from Industries working in the area of Artificial Intelligence.

### **Registration Fees:** **"No Charge for Registration, Course and Certification".**

### **How to Register:**

Participants can register at:

 <https://atalacademy.aicte-india.org/login>

Steps to Register:

1. Sign up as a participant and fill in your details.

2. Go to FDPs → ATAL → January → ENGINEERING → Online.

(Tip: Use Ctrl +F and search for FDP Application No: 1731334496.)

3. Select the Institute: School of Computational Sciences, Swami Ramanand Teerth Marathwada University, Nanded.

4. Register for the FDP titled:

" AI/ML for Healthcare and IoT Applications "(Application No: 1731334496).

## ATAL Online 6 Day Faculty Development Programmes 2024-25 Schedule

**FDP Thrust Area: Artificial Intelligence and Applications**

**FDP Title: AI/ML for Healthcare and IoT Applications**

**Start Date: 6th January 2025**

**End Date: 11th January 2025**

**"No Charge for Registration, Course and Certification"**

Final Date: 14th January 2020					
Day 1	Day 2	Day 3	Day 4	Day 5	Day6
6:00PMto6:30PM  <b>Inaugural Session</b>	6:00PMto7:30PM  <b>Session3</b> Topic: Modeling and Performance Evaluation Techniques using Python Name of the Expert: Prof. Ramesh Manza, Designation & Organization: Director and Prof. Department of Computer Science and Information Technology, BAMU Aurangabad Years of Exp: 25 years	6:00PMto7:30PM  <b>Session5</b> Topic: Explainable federated-based intrusion approach for enhancing the detection of IoT attacks Name of the Expert: Sultan Al shamrani Designation & Organization: Director - HoD of Computer Science Taif University Years of Exp:15 years	6:00PMto7:30PM  <b>Session7</b> Topic: Machine Learning based classification modeling in healthcare. Name of the Expert: Tushar B. Kute Designation & Organization: Sr. Data Scientist, MITU Research, Pune.  Years of Exp: 20 years.	6:00PMto7:30PM  <b>Session9</b> Topic: Deployed ML model in AWS, Azure, and GCP cloud Name of the Expert: Mr. Pradip Tivhale Designation & Organization: Lead Data Science Trainer at Byte Academy, Founder and CEO & Bellora Intelligent Solution , Bengaluru, Karnataka, India  Experience: 10 years.	2:00PMto3:30PM  <b>Session11</b> Topic: AI: Data Analytics using R Name of the expert: Dr Renuka R Londhe Designation and Organization: Assistant Professor and HoD Rajarshi Shahu Mahavidyalaya Autonomous Latur Years of Experience: 18 years.
6:30PMto8:00PM  <b>Session1</b> Topic: Topic AI in observability. Name of the Expert: Ashish Kolhe Designation & Organization: Director – OpenObserve Softwares Years of Exp:19 years	7:30PMto9:00PM  <b>Session4</b> Topic: AI: Information retrieval- recent advances and beyond Name of the Expert: Dr. Kailash Hambarde Designation & Organization: Research Assistant Professor Department Years of Exp:9 years	7:30PMto9:00PM  <b>Session6</b> Topic: Deep belief network with improved activation function for enhanced the Medical systems Name of the Expert: Dr. Archana H. Sable Designation & Organization: Associate Professor & School of Computational Sciences, SRTM University, Nanded. Years of Exp:14 years	7:30PMto9:00PM  <b>Session8</b> Topic: Application of clustering models in healthcare. Name of the Expert: Rashmi R. Thorave Designation & Organization: Managing Director, MITU Research and MITU Skillologies, Pune Years of Exp: 15 years.	7:30PMto9:00PM  <b>Session10</b> Topic: latest advancements in AI to drive decision-making and create value in Healthcare domain Name of the Expert: Preetee Sonule Designation & Organization: Quality Assurance Analyst & FIS Global Business Solutions India Private Limited Experience: 13 years.	3:30PMto5:00PM  <b>Session12</b> Topic: IPaaS Security, Optimal Possibilities with Graphical Techniques for Analyzing Image Processing Services in the Cloud Environment Name of the Expert: Syeda Zeba Kauser Designation & Organization: Engineer- Implementation & Sutherland Healthcare Global Years of Exp: 11 years
8:00PMto9:30PM  <b>Session2</b> Topic: Deep Learning algorithms in Medical Diagnosis Name :Sanjay Talbar Designation :Professor Industry: SGGS Institute of Engineering and technology Nanded MS India Experience:35 years					5:00PMto7:30PM  <b>Session13</b> Topic: Federated learning-based models to enhance the diagnosis medical disease  Name of the Expert: Aymen Muslih Al Hejri Designation & Organization: Faculty of Administrative and Computer Sciences, University of Albaydha, Albaydha, Yemen Years of Exp: 13 years
6:30PMto7:30PM <b>Onlinetest&amp;feedback</b>					
7:30PMto8:00PM <b>ValedictorySession</b>					