About the event:

The Directorate of Higher Education, Government of Goa, presents a five-day Faculty Development Program (FDP) on "Exploring Deep Learning with TensorFlow: A Hands-On Approach" from 20th to 24th January 2025. This program targets research scholars, postgraduate students, and faculty, offering in-depth learning in Al, ML, and Deep Learning with a focus on TensorFlow. Combining theory and practice, the FDP aims to equip participants with skills for real-world Al applications. Sessions will be led by Dr. Hemprasad Y. Patil and Dr. Surya Prakash, providing insights into the latest Al and ML trends.

Topics to be covered:

- Introduction to Artificial Neural Networks (ANN)
- In-depth TensorFlow Programming
- Building an ANN from scratch with TensorFlow
- Building a Custom CNN and Transfer Learning based CNN with TensorFlow
- Prediction of Fraudulent Financial Transactions using TensorFlow
- Generic Model Deployment using TensorFlow

Target Audience (Any Discipline):

- · Ph.D. Scholars
- · U.G. / P.G. Students
- Faculty

Registration fee: Free

Registration Link:

https://forms.gle/eMJrFb4WxMWXmnj17

(Last Date: 15th January 2025)

- Only 35 Participants.
- Committee will have rights for finalising selection of participants.

Chief Patron:

Shri, Bhushan Savoikar

Director

Directorate of Higher Education, Govt of Goa.

Coordinator

Dr. Mahadev Gawas

State Higher Education Council

Directorate of Higher Education, Govt of Goa.

Mail: gawas-dhe.goa@gov.in

Contact: 8830084183

Resource Persons:

Dr. Hemprasad Y. Patil

Associate Professor

Military College of Telecommunication
Engineering (Army), Mhow, Madhya Pradesh

Dr. Surya Prakash

Assistant Professor
Indian Institute of Information Technology,

Allahabad, Prayagraj,

Uttar Pradesh

Venue: Conference Hall, Second Floor, Directorate of Higher Education (DHE), Porvorim, Goa

Note:

- Participants will have to carry their own laptop.
- Participant Certificates will be issued only for 100% attendance.

Faculty Development Program (FDP)

On

Exploring Deep Learning with

TensorFlow: A Hands-On Approach
20th to 24th January 2025

Organized by

Directorate of Higher Education

Government of Goa





FDP SCHEDULE

S. No	Date	Session 1 (9:30AM -11:15AM)	(11:15AM to 11:30AM)	(11:30AM -1:00 PM)		Session 2 (02:00PM - 03:15PM)	(3:15PM to 3:30PM)	(3:30PM -4:30 PM)
1.	20/01/25 (Monday)	Resource Person: Dr. Surya Prakash Title: Introduction to Artificial Neural Networks (ANN)	Tea Break	Resource Person: Dr. Surya Prakash Title: Introduction to Artificial Neural Networks (ANN)	LUNCH BREAK (1.00PM TO 2.00PM)	Resource Person: Dr. Surya Prakash Title: Fundamentals of Neural Network Operations with Python	Tea Break	Resource Person: Dr. Surya Prakash Title: Fundamentals of Neural Network Operations with Python
2.	21/01/25 (Tuesday)	Resource Person: Dr. Surya Prakash Title: Backpropagation Algorithm		Resource Person: Dr. Surya Prakash Title: Backpropagation Algorithm		Resource Person: Dr. Surya Prakash Title: Hands-on Session on Python Programming and System configuration		Resource Person: Dr. Surya Prakash Title: Hands-on Session on Python Programming and System configuration
3.	22/01/25 (Wednesday)	Resource Person: Dr. Hemprasad Patil Title: In-depth TensorFlow Programming		Resource Person: Dr. Hemprasad Patil Title: In-depth TensorFlow Programming		Resource Person: Dr. Hemprasad Patil Title: Hands-on: Building an ANN from scratch with TensorFlow		Resource Person: Dr.Hemprasad Patil Title: Hands-on: Building an ANN from scratch with TensorFlow
4.	23/01/25 (Thursday)	Resource Person: Dr. Hemprasad Patil Title: Hands-on: Building a custom CNN with TensorFlow for Medical Image Classification		Resource Person: Dr. Hemprasad Patil Title: Hands-on: Building a custom CNN with TensorFlow for Medical Image Classification		Resource Person: Dr. Hemprasad Patil Title: Hands-on: Implementing Transfer Learning using Pre- trained Models with Tensorflow using Healthcare data		Resource Person: Dr. Hemprasad Patil Title: Hands-on: Implementing Transfer Learning using Pre- trained Models with Tensorflow using Healthcare data
5.	24/01/25 (Friday)	Resource Person: Dr. Hemprasad Patil Title: Hands-on: Prediction of Fraudulent Financial Transactions using Tensorflow		Resource Person: Dr. Hemprasad Patil Title: Hands-on: Prediction of Fraudulent Financial Transactions using Tensorflow		Resource Person: Dr. Hemprasad Patil Title: Hands-on: Generic Model Deployment using TensorFlow Lite		Resource Person: Dr. Hemprasad Patil Title: Hands-on: Generic Model Deployment using TensorFlow Lite