

Department of Electrical Engineering

Academic Year 2022-23

FDP on "Big Data applications to Electrical Engineering"

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		To motivate researchers towards the upcoming area of big data in electrical engineering.			
		To discuss the following areas of research with participants:			
	Objective	1. Introduction to IoT and AI.			
		2. Indoor Air Pollution Monitoring - IoT Case Study			
		3. Loading & Understanding Data with Statistics			
		4. Understanding Data with Visualization			
		5. Preparing & Pre-Processing Data (Numerical & Categorical)			
		6. Feature Analysis & Selection			
		7. Theoretical Introduction to ML Algorithms			
		8. Building a Classification Model from Scratch with Data			
		9. Building a Regression Model from Scratch with Data			
		10. Prospective of Power Quality Improvement studies in Typhoon HIL- DVR Example			
		11. Case Studies on Deep Learning & Big Data			
(;	Organizer	Department of Electrical Engineering			
		SVKM's Institute of Technology, Dhulë			
	Participating Class &	Faculty from Electrical Engineering of various colleges.			
	Division				
	Date	20/02/2023 to 24/02/2023 (One Week)			
	Time	10:00 AM to 4:00 PM			
	Venue	Online – Microsoft Teams			
	Coordinator/s	Mr. Sandeep Ushkewar			
		Organizing Team: Mr. Gaurav Patil, Dr. Namra Joshi, Mr. Jagdish More, Ms. Farha			
		Naz, Mr. T. M. Shubham, Mr. Shahid Akhtar, Dr. M. Ankush Kumar, Mr. Rahul			
		Thakur, Mr. Jayesh Patil, Mr. Pankaj Bhavsar.			
	Name of	1. Dr. Shimi S.L, Assistant Professor, NITTTR Chandigarh			
	Speaker with	2. Dr Lini Mathew, Professor, NITTTR Chandigarh			
	Designation	3. Dr. Jagriti Saini, Founder Eternal RESTEM, Sunder Nagar, HP			
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Department of Electrical Engineering

	DAY & DATE	Live Session - 1 10.00 AM to 11. 30 AM	Live Session - 2 12.00 PM to 1.30 PM	Live Session - 3 2.30 PM to 4.00 PM
	Monday 20/02/2023	Course Inauguration & Introduction to Big Data Analytics (SSL/JS)		Introduction to IoT and Al (JS)
Brief report on activity	Tuesday 21/02/2023	Indoor Air Pollution Monitoring - IoT Case Study (JS)	Loading & Understanding Data with Statistics (JS)	Understanding Data with Visualization (JS)
	Wednesday 22/02/2023	Preparing & Pre-Processing Data (Numerical & Categorical) (JS)	Preparing & Pre- Processing Data (Numerical & Categorical) (JS)	Feature Analysis & Selection (JS)
	Thursday 23/02/2023	Theoretical Introduction to ML Algorithms (JS)	Building a Classification Model from Scratch with Data (JS)	Building a Regression Model from Scratch with Data (JS)
	Friday 24/02/2023	Case Study 1: Deep Learning & Big Data (JS)	Case Study 2: Deep Learning & Big Data (JS)	STC Valediction (SSL/LM)
Duration of Program	One Week			-
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Mr. Sandeep Ushkewar Coordinator		Opda Kal		r. Nilesh Salunke
		Department Coordinator Principal & Patron		

Attached:-

- 1. Details of the Event
- 2. Event Memories/Pictures
- 3. List of Participants
- 4. Sample Certificate

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1. Details of the Event

Name of Program: FDP on "Big Data applications to Electrical Engineering".

Objectives: To motivate researchers towards the upcoming area of big data in electrical engineering. To discuss the following areas of research with participants:

- 1. Introduction to IoT and AI.
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- Prospective of Power Quality Improvement studies in Typhoon HIL- DVR Example Case Studies on Deep Learning & Big Data

Dates and duration: 20/02/2023 to 24/02/2023 (One Week)

Event Coordinator: Mr. Sandeep Ushkewar

Convener: Dr. Vishal Moyal.

Patron: Dr. Nilesh Salunke

Organizing Team: Mr. Gaurav Patil, Dr. Namra Joshi, Mr. Jagdish More, Ms. Farha Naz, Mr. T. M. Shubham, Mr. Shahid Akhtar, Dr. M. Ankush Kumar, Mr. Rahul Thakur, Mr. Jayesh Patil, Mr. Pankaj Bhavsar.

Participants: Faculty from Electrical Engineering Department (Only from SVKM's IOT, Dhule)

Name and details of the speakers:

- 1. Dr. Shimi S.L, Assistant Professor, NITTTR Chandigarh
- 2. Dr Lini Mathew, Professor, NITTTR Chandigarh
- 3. Dr. Jagriti Saini, Founder Eternal RESTEM, Sunder Nagar, HP

2. Event Poster



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3. Event Memories/ Pictures





3. List of Participants

Attendance Name of the Course:Big Data Applications in Electrical Engineering (ICT-172) Dates: 20/02/2023 to 24/02/2023

4. Sample Certificate

