Faculty Development Programs

We organize faculty development programs every year. To enable faculty from all over India to attend this program, since lockdown, most of these are conducted it in online mode. Faculty is always busy in the teaching and learning process. These programs help faculty to abreast of technology trends in their field. Expert from industry and academia share their knowledge with the participants.

Objectives:

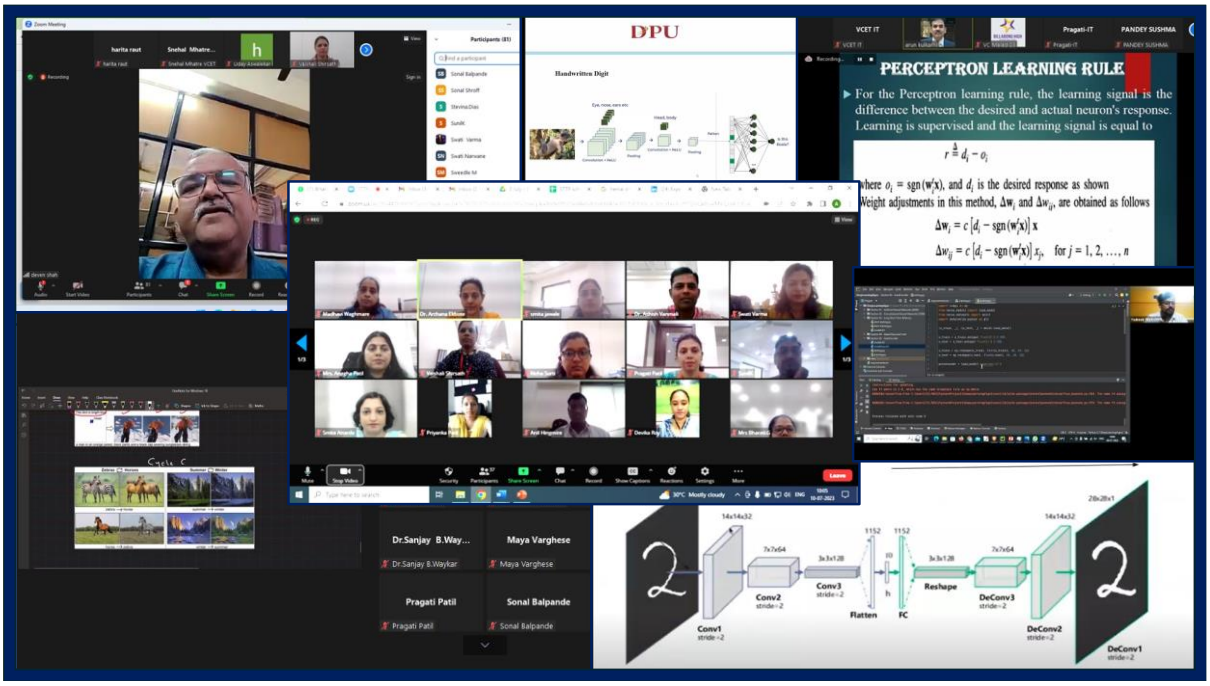
1. To expose faculty to trends in technology
2. To encourage faculty to carry out research in the latest technology
3. To orient faculty towards industry needs.
4. To expose faculty to the latest tools.

Outcomes:

Faculty will be able to

1. Identify new research areas.
2. Identify industry needs.
3. Design solutions to given problems using the latest technology.
4. Include the latest tools in their course.

Year	Title	Duration
2015-16	Cloud Computing	1 week
2016-17	IOT considerations and application	1 week
2017-18	Internet of Things in Energy and Utilities	1 week
2018-19	Machine learning with Tensorflow	2 weeks
2018-19	Scope of IOT for social upliftment	2 weeks
2020-21	Internet Programming: The Full Stack Approach	2 weeks
2021-22	Artificial Intelligence Towards Data Science Applications	2 weeks
2022-23	Exhilarating Socio-human Life Using Deep Learning	2 weeks
2023-24	Microsoft PowerBI Data Analyst Associate	1 week


DPU
Handwritten Digit
PERCEPTRON LEARNING RULE
For the Perceptron learning rule, the learning signal is the difference between the desired and actual neuron's response. Learning is supervised and the learning signal is equal to
$r \triangleq d_i - o_i$
where $o_i = \text{sgn}(\mathbf{w}_i^t \mathbf{x})$, and d_i is the desired response as shown
Weight adjustments in this method, $\Delta \mathbf{w}_i$ and Δw_{ij}, are obtained as follows
$\Delta \mathbf{w}_i = c\,[d_i - \text{sgn}(\mathbf{w}_i^t \mathbf{x})]\,\mathbf{x}$
$\Delta w_{ij} = c\,[d_i - \text{sgn}(\mathbf{w}_i^t \mathbf{x})]\,x_j, \quad \text{for } j = 1, 2, \ldots, n$
Dr.Sanjay B.Way...
Maya Varghese
Pragati Patil
Sonal Balpande
Conv1
Conv2
Conv3
Flatten
FC
Reshape
DeConv3
DeConv2
DeConv1