

Report  
on  
A Short-Term Training Program/Workshop  
on  
Machine Learning for Optimal Process Design and Development: Techniques  
and Tools in Python

A Short-Term Training Program/Workshop on *Machine Learning for Optimal Process Design and Development: Techniques and Tools in Python* was organized by Institution Innovation Council (IIC), Gautam Buddha University, Greater Noida from 5-10 June 2023 in online mode.

The STTP was organized under the able guidance of Hon'ble Vice Chancellor of GBU, Prof. R.K. Sinha. The convenors of the event were Dr. Indu Uprety, President IIC; Dr. Dipti Singh, Astd. Prof., Deptt. of Applied Mathematics and Dr. Nidhi Singh, Astd. Prof., Deptt. of Electrical Engineering.

The STTP started with the blessings of Goddess Saraswati and words of wisdom by Hon'ble Vice Chancellor, GBU. The formal welcome of VC Sir, all the participants, and speaker was done by Dr. Indu Uprety and after that the technical session was started. The first day lecture started with the introduction to Process Design & development; overview of machine learning and its applications in process design and development. Introduction to python and its various libraries were also given on first day followed by supervised and unsupervised learning techniques. Advance topics in machine learning like deep learning and neural networks were also covered during the STTP. All the techniques were implemented on various case studies and practical applications of machine learning in process optimization, control and prediction were illustrated.

It was a successful event with approximately 50 participants (National and International). The participants were from Tashkent Russia and across the country. The participants have attended the program with full attention and asked their queries from the speaker.

The speaker of the event was Dr. Raju Pal from IIIT Noida. He has a working experience of more than 14 years. His research areas are machine learning, medical image analysis and wireless sensor networks. He had made substantial contributions to the field of image processing and machine learning with 20+ research articles. He is also the reviewer of many International Journal like Journal of Communications and Networks, Future Generation Computer Systems, Neural Computing and Applications, etc.