School of Advanced Sciences
Department of Mathematics
VIT, Vellore - 632014 Tamil Nadu, India.

Value Added Course
on
VAC2402 –Machine Learning using Python
16-20, 23-25, November 2026
Programme Schedule

Venue: Online

Day–1 (16th November, 2026)

Time	Topic
9.00 AM– 11.00 AM	**Session : 1** Python Installing, IDEs, Python Data types: Dr. Nageshwar Rao Ragi
11.00 AM – 01.00 PM	**Session : 2**: Control Structures: Dr. Raja Das

Day–2 (17th November, 2026)

9.00 AM– 11.00 AM	**Session : 3** Functions, Introduction of OOPs: Dr. P. Ragukumar
11.00 AM – 01.00 PM	**Session : 4** Data Analysis and Visualization: Dr. Raja Das

Day–3 (18th November, 2026)

9.00 AM– 11.00 AM	**Session : 5** Role of NumPy in real-time applications: Dr. Nageshwar Rao Ragi
11.00 AM – 01.00 PM	**Session : 6** Pandas: Dr. P. Ragukumar

Day–4 (19th November, 2026)

9.00 AM– 11.00 AM	**Session : 7** Matplotlib and SciPy: Dr. P. Ragukumar
11.00 AM – 01.00 PM	**Session : 8** Linear and Logistic regression: Dr. Nageshwar Rao Ragi

Day–5 (20th November, 2026)

9.00 AM– 11.00 AM	**Session : 9** Support Vector machines: Dr. Nageshwar Rao Ragi
11.00 AM – 01.00 PM	**Session : 10** Decision Trees, Random Forest: Dr. Raja Das

Day–6 (23th November, 2026)

9.00 AM– 11.00 AM	**Session : 11** Principal Component Analysis: Dr. Nageshwar Rao Ragi
11.00 AM – 01.00 PM	**Session : 12** Hierarchical Clustering, K-Means Clustering: Dr. Raja Das

Day–7 (24th November, 2026)

9.00 AM– 11.00 AM	**Session : 13**, Centroid based Clustering: Dr. Raja Das
11.00 AM – 01.00 PM	**Session : 14** : Reinforcement Learning: Dr. P. Ragukumar

Day–8 (25th November, 2026)

9.00 AM– 11.00 AM	**Session : 15** Assumptions for Semi Supervised Algorithms, Differences between semi supervised and Reinforcement Learning: Dr. P. Ragukumar
11.00 AM – 01.00 PM	**Session : 16** Applications of Machine Learning Algorithms in Image Recognition, Speech Recognition: Dr. Raja Das

Organizing Secretaries:	Dr. Nageshwar Rao Ragi, Associate Professor Dr. Ragukumar P, Associate Professor Dr. Raja Das, Associate Professor