

**Dr. D. Y. Patil Arts, Commerce & Science College, Pimpri, Pune – 18**

**Department of Computer Science**

2025-2026

**Notice**

All students of T.Y.B.C.A. (Science) Semester III, Division A & B, are notified that, as per the curriculum guidelines, a Credit Activity 1 has been scheduled as part of the continuous assessment process. This activity is designed to contribute to the achievement of the course and program outcomes specified in the syllabus. Credit Activity 1 for the Data Mining and Data Science course, that we are excited to announce a fun and engaging activity: **“Unsupervised Learning with K-Means”** This is a great opportunity for you to showcase your programming skills and enjoy some friendly competition. Students are required to complete and submit their work by August 16th, 2025.

In this activity, You are required to apply **K-Means clustering** to a dataset as per the given schedule and visualize the resulting clusters using **Matplotlib or Seaborn**. Ensure your work includes:

* Proper data preprocessing
* Application of K-Means with appropriate number of clusters
* Clear visualization with labels and titles

**Coordinator Incharge Principal & HOD.(C.S)**



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**Credit Activity 1 Schedule**

**Date: - 07/08/2025**

|  |  |  |
| --- | --- | --- |
| **Sr.No.** | **Roll No.** | **Dataset** |
| 1 | 1 to 10 | Iris |
| 2 | 11 to 20 | Cars |
| 3 | 21 to 30 | Company |
| 4 | 31 to 40 | Diabetes |
| 5 | 41 to 50 | Employees |
| 6 | 51 to 60 | Groceries |
| 7 | 61 to 71 | Fish |
| 8 | 81 to 90 | Movie Review |
| 9 | 91 to 100 | Housing |
| 10 | 101 to 110 | Position Salaries |
| 11 | 111 to 120 | Salary |
| 12 | 121 to 130 | Shows |
| 13 | 131 to 140 | SOCR |
| 14 | 141 to 150 | Student Performance |
| 15 | 151 to 160 | User Data |
| 16 | 161 to 170 | Wine |
| 17 | 171 to 177 | Play Tennis |

**Coordinator Incharge Principal & HOD.(C.S)**