## CHANDIGARH UNIVERSITY

## UNIVERSITY INSTITUTE OF ENGINEERING

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

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| **Submitted By: Submitted To:**  Vivek Kumar(21BCS8129) Er. Sandeep Kaur(E3095) | |
| **Subject Name** | Computer Vision Lab |
| **Subject Code** | 20CSP-422 |
| **Branch** | Computer Science and Engineering |
| **Semester** | 7th |

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| **Ex. No** | **List of Experiments** | **Conduct (MM: 12)** | **Viva**  **(MM: 10)** | **Record (MM: 8)** | **Total**  **(MM: 30)** | **Remarks/**  **Signature** |
| 1.1 | Write a program to implement various feature extraction techniques for image classification. |  |  |  |  |  |
| 1.2 | Write a program to assess various feature matching algorithms for object recognition. |  |  |  |  |  |
| 1.3 | Write a program to analyze the impact of refining feature detection for image segmentation. |  |  |  |  |  |
| 1.4 | Write a program to evaluate the efficacy of human-guided control point selection for image alignment. |  |  |  |  |  |
| 2.1 | Write a program to compare the performance of different classification models in image recognition. |  |  |  |  |  |
| 2.2 | Write a program to interpret the effectiveness of Bag of Features in enhancing image classification performance. |  |  |  |  |  |
| 2.3 | Write a program to analyze various object detection algorithms with machine learning. |  |  |  |  |  |
| 3.1 | Write a program to determine the effectiveness of incorporating optical flow analysis into object tracking algorithms. |  |  |  |  |  |
| 3.2 | Write a program to examine the performance of various pretrained deep learning models for real-time object tracking tasks. |  |  |  |  |  |
| 3.3 | Write a program to interpret the effectiveness of template matching techniques for video stabilization tasks. |  |  |  |  |  |