EXPERIMENTAL LEARNING ACTIVITY(B.Tech. 3rd SEMESTER)

# *Real-time application on computer vision using MATLAB and python*

*OBJECTIVE*

* This ELC activity is aimed to provide knowledge about Computer vision for transformation of images for imparting different drawing effects in real-time. The student must be able to apply the various concepts of computer-vision to solve and develop the applications of real life issues.

*PROBLEM STATEMENT*

* Computer vision is a scientific field that deals with how computers can be made to understand the visual world such as digital images or videos. And after years of research by some of the top experts in the world, this is now a possibility. The future of computer vision is beyond our expectations.
* In this ELC activity, we have discussed just an introduction of MATLAB and some idea about how the student must be able to apply the various concepts of Computer Vision to solve and develop the applications for real-world challenges. Some of the project’s examples that we have to show here to make you all acquainted with the real-world experience and to make you job-ready.

*SOLUTION TO THE PROGRAM*

* FACE DETECTION

Face detection is a technique to find the location of the human faces in an image. Computers use various types of algorithms to detect if the shape in the image resembles a face or not.

# *SOFTWARE USED*

* MATLAB

*RESULT*

* The software detects whether a face is present using the camera detected with the device.