Course Title: Computer Vision **Course Code: IR 121**

Course Background / Summary:

Computer Vision is a cutting-edge technology that enables machines to interpret and understand the visual world, mimicking human vision. It finds applications in various fields such as image recognition, robotics, autonomous vehicles, healthcare, and more. This course introduces participants to the fundamental concepts and practical applications of computer vision, empowering them to harness the power of visual data in their projects and innovations.

Course Objectives:

- Understand the fundamental principles and techniques of computer vision.
- Grasp the basics of image processing, feature extraction, and object recognition.
- Learn about machine learning algorithms used in computer vision applications.
- Acquire skills in implementing computer vision algorithms using programming languages and frameworks.

Target Audience:

- Software Developers
- Researchers or Data Scientist
- Students and Educators

Course Duration: 3 Days

Course Contents

1.0 Introduction to Computer Vision

2.0 Image Processing Fundamentals

3.0 Feature Extraction and Detection

4.0 Object Recognition and Tracking

5.0 Machine Learning for Computer Vision

6.0 Applications of Computer Vision