

**INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

**COMPUTER SCIENCE AND ENGINEERING (AI&ML)****ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT**

|                      |  |               |  |
|----------------------|--|---------------|--|
| Name of the faculty: | Ms. POKALA SUMATHI                     | Department:   | Computer Science and Engineering (AI&ML) |
| Regulation:          | IARE - UG20                            | Batch:        | 2021-2025                                |
| Course Name:         | Image and Speech Processing Laboratory | Course Code:  | ACAC11                                   |
| Semester:            | V                                      | Target Value: | 70% (2.1)                                |

**Attainment of COs:**

|     | Course Outcome   | Direct Attainment | Indirect Attainment | Overall Attainment | Observation |
|-----|--|-------------------|---------------------|--------------------|-------------|
| CO1 | Demonstrate the fundamental concepts of digital signal processing and Image processing.  | 3.00              | 0.00                | 3                  | Attained    |
| CO2 | Illustrate the Implement of components in speech processing systems including speech recognition and speaker recognition, in MATLAB.       | 3.00              | 0.00                | 3                  | Attained    |
| CO3 | Construct image intensity transformation and filtering techniques for image enhancement in the spatial and frequency domain.               | 3.00              | 0.00                | 3                  | Attained    |
| CO4 | Apply the Edge detection technique of image processing and us identifying the points in a digital image with discontinuities               | 3.00              | 0.00                | 3                  | Attained    |
| CO5 | Analyze images in the frequency domain using various transforms like Fourier Transform (FT) and fast Fourier Transform (FFT) on the audio. | 3.00              | 0.00                | 3                  | Attained    |
| CO6 | Analyze images in the frequency domain using Recognize speech from audio data using different APIs signal                                  | 3.00              | 0.00                | 3                  | Attained    |

**Action Taken Report: (To be filled by the concerned faculty / course coordinator)**  
Course Coordinator  
Mentor  
Head of the Department  
Head of the Department  
CSE (Artificial Intelligence & Machine Learning)  
INSTITUTE OF AERONAUTICAL ENGINEERING  
Dundigal, Hyderabad-500043.