



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

**CIVIL ENGINEERING**

## ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

|                      |                            |               |             |
|----------------------|----------------------------|---------------|-------------|
| Name of the faculty: | Ms. P. Naga Lakshmi Devi   | Department:   | CE          |
| Regulation:          | IARE - R16                 | Batch:        | 2016 - 2020 |
| Course Name:         | Probability and Statistics | Course Code:  | AHS010      |
| Semester:            | III                        | Target Value: | 60% (1.8)   |

### Attainment of COs:

| Course Outcome | Course Outcome   | Direct attainment | Indirect attainment | Overall attainment | Observation                   |
|----------------|--|-------------------|---------------------|--------------------|-------------------------------|
| CO1            | Explain the parameters of random variate Probability distributions including Binomial, Poisson and Normal distribution by using their probability functions, expectation and variance. | 2.30              | 2.40                | 2.3                | Attainment target reached     |
| CO2            | Interpret the concepts of discrete and continuous probability distribution, CLT problems, correlations and Regression Analysis for statistical forecasting.                            | 0.60              | 2.50                | 1.0                | Attainment target not reached |
| CO3            | Make use of the concept of sampling distribution of statistical data by using behavior of the sample mean.   | 3.00              | 2.50                | 2.9                | Attainment target reached     |
| CO4            | Apply the concept of estimation in real-world problems of signal processing and testing of hypothesis to predict the significance difference, types of errors in the sample means.     | 3.00              | 2.40                | 2.9                | Attainment target reached     |
| CO5            | Calculate the role of statistical hypotheses, confidence intervals, the tests of hypotheses for large samples in making decisions over statistical claims in hypothesis testing        | 3.00              | 2.60                | 2.9                | Attainment target reached     |
| CO6            | Identify the tests of hypothesis for small samples and comparing three variables of ANOVA in making decisions over statistical claims in hypothesis testing                            | 2.10              | 0.00                | 1.7                | Attainment target not reached |

**Action taken report:**

CO2: Need to provide the more problems and assignments on discrete and continuous probability distribution, CLT problems, correlations and Regression Analysis which enables the students to gain more problem-solving skills.

CO6: Need to provide the more problems and assignments on tests of hypothesis for small samples and comparing three variables which enables the students to gain more problem-solving skills.

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Course Coordinator

*P. Nagalakshmi*  
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