



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

MECHANICAL ENGINEERING

## ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	<b>Mr. CH Soma Shekar</b>	Department:	<b>ME</b>
Regulation:	<b>IARE - R16</b>	Batch:	<b>2017 - 2021</b>
Course Name:	<b>Mathematical Transforms Techniques</b>	Course Code:	<b>AHS011</b>
Semester:	<b>IV</b>	Target Value:	<b>60% (1.8)</b>

### Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Explain the nature of the Fourier series that represent even and odd functions.	0.90	2.30	1.2	Attainment target not reached
CO2	Apply to compute the Fourier series of the function with one variable	0.30	2.30	0.7	Attainment target not reached
CO3	Identify the role of Fourier transform non-periodic functions up to infinity as a mathematical function in transforming a signal from the time domain to the frequency domain	0.60	2.20	0.9	Attainment target not reached
CO4	Explain the properties of Laplace and inverse transform to various functions the integral transforms operations of calculus to algebra in linear differential equations	0.90	2.20	1.2	Attainment target not reached
CO5	Compute the Z-transforms and inverse of Z-transforms to difference equations by using the methods of partial fractions and convolution method	0.30	0.00	0.2	Attainment target not reached
CO6	Solve the linear, nonlinear partial differential equation by the method of Lagrange's, separable and Charpit to concern engineering field	0.60	0.00	0.5	Attainment target not reached

### Action taken report:

- CO1: More assignments may be given on Fourier series for better attainment.  
CO2: More problems may be given on Fourier series for better attainment.  
CO3: More assignments may be given on Fourier Transforms for improvement.  
CO4: More assignments in Laplace equations may be given for better attainment.  
CO5: More assignments and application problems in Z transforms may be given for better attainment.  
CO6: More problems in Lagrange's method may be given for better improvement.

  
Course Coordinator

  
Mentor

  
Head of the Department  
Mechanical Engineering  
**HOD**  
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