



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	Dr. A Jayanth Kumar	Department:	ME
Regulation:	IARE - R16	Batch:	2017 - 2021
Course Name:	Modern Physics	Course Code:	AHS008
Semester:	II	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Make use of space lattice, unit cell, lattice parameters and coordination number to calculate the packing factor of different crystal structures.	0.90	2.40	2.3	Attainment target not reached
CO2	Apply Braggs law of X-Ray diffraction to study different point and line defects in crystals.	1.60	2.40	1.2	Attainment target not reached
CO3	Compare the concepts of Laser and normal light in terms of mechanism and working principles for applications in different fields and scientific practices.	0.90	2.40	1.2	Attainment target not reached
CO4	Utilize the importance of sensor materials in different real time applications.	0.60	2.40	1.8	Attainment target not reached
CO5	Explain functionality of components in optical fiber communication system by using the basics of signal propagation, attenuation and dispersion.	1.60	2.40	1.7	Attainment target not reached
CO6	Interpret the phenomena of interference and diffraction by using the principles of wave motion and superposition.	0.90	2.40	1.7	Attainment target not reached

Action taken report:

CO2: More problems may be given on Braggs law of X-Ray diffraction to study different point and line defects in crystals.


CO3: More real time applications may be given on Laser and normal light for better improvement.

CO5: More applications may be given on optical fiber communication system by using the basics of signal propagation.

CO6: More assignment may be given on phenomena of interference and diffraction.


Course Coordinator


Mentor


Head of the Department
Mechanical Engineering
HOD
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