

COURSE OUTCOME ASSESSMENT AND ATTAINMENT (R16)

COURSE NAME: TOM LAB

CODE: R1631036

COURSE OUTCOMES: Students are able to

CO	STATEMENT
CO1	Relate to fundamental knowledge of dynamics of machines like dynamic balancing, flywheel analysis, gyroscopic forces and moments[K1,K2]
CO2	Experiment with the velocity and acceleration concepts and the methodology using graphical methods and principles and application of four bar chain.[K2]
CO3	Analyze the applications of cams and their working principles.[K4]
CO4	Test vibrations and its significance on engineering design.[K4]
CO5	Illustrate gears, power transmission through different types of gears including gear profiles.[K2]

MAPPING CO'S WITH PO'S

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	2	3	-	-	1	-	2	3	-	-	-	-
CO2	2	3	2	3	-	-	-	-	2	2	-	-	-	-
CO3	2	3	2	3	-	-	-	-	2	2	-	-	-	-
CO4	1	3	2	3	1	-	2	-	2	2	-	-	-	-
CO5	3	1	1	1	-	-	-	-	1	2	-	-	-	-
Avg	2.2	2.2	1.8	2.6	0.2	-	0.6	-	1.8	2.2	-	-	-	-

MAPPING COURSE WITH PO'S

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
TOM LAB	2.2	2.2	1.8	2.6	0.2	-	0.6	-	1.8	2.2	-	-	-	-

COURSE OUTCOME RUBRIC

Course	Assessment Methods with weightage	Method	Attainment Level 1 (Average)	Attainment Level 2 (Good)	Attainment Level 3 (Excellent)
LAB Course Outcome	Internal tests (40%)	Direct	60% students scoring more than 50% marks out of the maximum marks	70% students scoring more than 50% marks out of the maximum marks	80% students scoring more than 50% marks out of the maximum marks
	University Average Mark (60%)	Direct	50% students scoring more than D grade in University grades	60% students scoring more than D grade in University grades	70% students scoring more than D grade in University grades

Course Name: TOM LAB
Target for Course Outcome: 2.5

Code: R1631036
Batch: 2017-2021

MEASURING CO ATTAINMENT THROUGH INTERNAL ASSESSMENTS		
INTERNAL TEST		
Attainment	:	32 out of 32 students got more than 15 (50% of max internal Marks 25) marks. So, 100% of students got marks more than target marks.
Attainment level	:	3
MEASURING COURSE OUTCOMES ATTAINED THROUGH UNIVERSITY EXAMINATIONS (DIRECT METHOD)		
Attainment	:	32 out of 32 students got more than D grade in university results. So, 100% of students got marks more than target marks
Attainment level	:	3

Total Attainment of TOM LAB Course

Assessment Tool with weightage	Method	Level of attainment			
		3	2	1	0
Internal Exam (30%)	Direct	3			
University Exam (50%)	Direct	3			

Course Attainment = $0.4 \times 3 + 0.6 \times 3 = 3$. Since the attained level (3) is greater than the target level (2.5), all specified outcomes are achieved.

Course-PO Attainment for TOM LAB:

Final PO attainment value = $\frac{CO-PO \text{ Mapping Average} \times \text{Course Attainment Value}}{3}$

Final COURSE Attainment WITH PO'S

Final Course PO attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
TOM LAB	2.2	2.2	1.8	2.6	0.2	-	0.6	-	1.8	2.2	-	-	-	-