

School of Engineering and Technology
(BCA-303): Theory of Computation (2023-24)

(ii) CO PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	1	-	3	2	3	3	-	2	3	3	3	2	3
CO2	2	3	3	3	2	3	-	1	2	-	3	3	2	3	1	1	3
CO3	1	3	2	2	-	-	2	2	2	-	-	3	3	2	3	2	1
CO4	1	2	3	3	2	-	2	1	3	3	3	3	2	3	2	1	2
CO5	3	3	3	2	-	1	-	2	1	-	-	2	2	2	1	2	2
Avg.	2	2.8	2.8	2.6	1	0.8	1.4	1.6	2.2	1.2	1.2	2.6	2.4	2.6	2	1.6	2.2

High- 3

Medium-2

Low- 1

Here in the table, '3' corresponds to a high correlation; '2' corresponds to a medium correlation, and '1' corresponds to a low correlation, between CO and PO/PSO.



CO-PO Attainment (2023-24)

CO Attainment Calculations

Direct Assessment						Indirect Assessment Students/ Faculty/Employer
Direct Assessment 1 (CIA)		Direct Assessment 2 (ESE)		Course Exit Survey/Feedback		
CIA1	CIA2	ESE				
Number of students who have scored more than target (P)	45	43		49	60	
Percentage of students who have achieved the target = (P/N)*100	75	71.66		81.66	100	
Attainment Level (3 for >80%, 2 for >70%, 1 for > 60%)	a = 2	b = 2	c =	3	d = 3	
Attainment based on internal assessment (CIA) = Average of (a and b);	CIA		= 2			
Direct CO Attainment Level (DA) =40% CIA + 60% End-Term (C);	DA		= 2.6	= 0.4*2 + 0.6*3		
Indirect CO Attainment Level (IA) (based on Exit Survey (d));	IA		= 3			
80 % of DA			= 2.08			
20 % IA			= 0.6			
CO Attainment Level (COA) = 80 % DA+ 20 % IA;			COA	= 2.68		



Based on the Course Objectives Attainment (COA) value as calculated at the end, perform the PO/PSO Attainment Calculations as shown below:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	3	3	3	3	1	-	3	2	3	3	-	2	3	3	3	2	3
CO2	2	3	3	3	2	3	-	1	2	-	3	3	2	3	1	1	3
CO3	1	3	2	2	-	-	2	2	2	-	-	3	3	2	3	2	1
CO4	1	2	3	3	2	-	2	1	3	3	3	3	2	3	2	1	2
CO5	3	3	3	2	-	1	-	2	1	-	-	2	2	2	1	2	2
Avg.	2	2.8	2.8	2.6	1	0.8	1.4	1.6	2.2	1.2	1.2	2.6	2.4	2.6	2	1.6	2.2

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
Average Mapping(M)	2	2.8	2.8	2.6	1	0.8	1.4	1.6	2.2	1.2	1.2	2.6	2.4	2.6	2	1.6	2.2
PO / PSO Attainment Level*	1.97	2.32	2.50	2.32	0.89	0.71	1.25	1.43	1.97	1.07	0.89	2.32	2.14	2.50	1.61	1.43	1.97

$$* = \text{COA} \times \text{M} / 3$$



27. PLAN OF ACTION TO IMPROVE CO ATTAINMENT NEXT TIME

Action taken to improve CO attainment

1. Frame higher targets or attainment levels for next academic year.
2. Teaching methods will restructure on the basis of feedback received from students.
3. More interactive sessions will plan for UGC NET/ GATE.
4. Assignments and seminars will give and they will expect to study the real-world Problems and give presentation about their ideas to solve them.

