

CO Attainment		a. Direct Method	80%
		b. Indirect Method	20%
Guidelines			
a.	Minimum acceptance level of each assessment of the Internal and External Examination Representing all CO's	60%	
b.	Attainment level of each Individual CO	Correlation Levels (If $0.5 \leq X < 0.6$ then $X = 1$, Else $0.6 \leq X < 0.7$ then $X = 2$, Else $0.7 \leq X \leq 1$ then $X = 3$)	

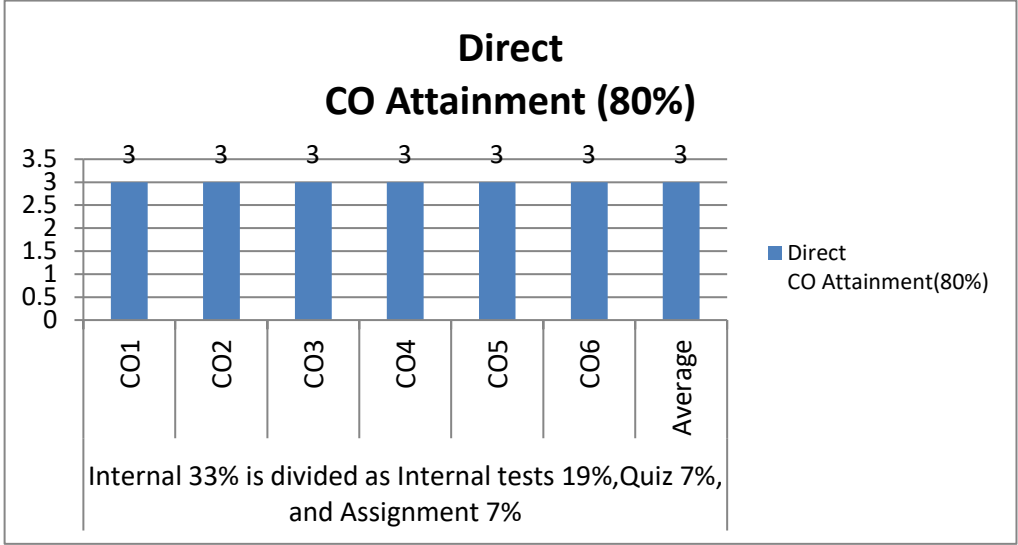
Direct Course Outcome Attainment

Subject - Operation Strategy(MBPC-3015) 2025-26

		CO1			CO2			CO3			CO4			CO5			CO6					
		Internal Test-1									Internal Test-2											
			Class Test-1	Quiz -1	Assignment-1	Class Test-1	Quiz -1	Assignment-1	Class Test-1	Quiz -1	Assignment-1	Class Test-2	Quiz -2	Assignment-2	Class Test-2	Quiz -2	Assignment-2	Class Test-2	Quiz -2	Assignment-2	University attainment	
Sl. No.	Regd. No.	Name of the Student	2	2	1	3	2	2	10	1	2	3	2	1	2	2	1	10	1	3	Count the grades >= C	
1	2306284170	SUBHODEEP GHOSH	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	9	1	3	A	45
2	2406284011	ADITYA NARAYANA PRUSTY	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	9	1	3	E	45
3	2406284020	ARITRA GUPTA	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	E	42
4	2406284023	ASHISH RATH	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	E	42
5	2406284025	ASMITA KAR	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	9	1	3	E	45
6	2406284028	AYUSH PATTANAIAK	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	A	46
7	2406284034	BIBHUTI BHOI	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	A	46
8	2406284043	CHANDAN KUMAR SAHOO	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	A	46
9	2406284064	HRISHIKESH MAZUMDAR	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	A	46
10	2406284066	JANMEJAYA DAS	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	C	46
11	2406284071	JNANA RANJAN SWAIN	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	A	46
12	2406284085	MADHUSMITA SETHY	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	E	46
13	2406284095	MANORANJAN GOUDA	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	O	46
14	2406284152	RASHMI RANJAN SAHOO	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	10	1	3	E	46
15	2406284165	SAMEER PATRA	1	2	1	3	1	2	9	1	2	2	2	1	2	2	1	9	1	2	E	44
16	2406284169	SANGRAM PRUSTY	1	2	1	3	1	2	10	1	2	2	2	1	2	2	1	10	1	3	A	47
17	2406284235	SULATA HEMBRAM	1	2	1	3	1	2	10	1	2	3	2	1	2	2	1	10	1	3	E	48
18	2406284248	SWAPNARANI MAHAPATRA	1	2	1	3	1	2	10	1	2	2	2	1	2	2	1	10	1	3	A	47
Set Value (50% of the internal test, Quiz, and the Assignment)			0.5	1	0.5	1.5	0.5	1	5	0.5	1	1.5	1	0.5	1	1	0.5	5	0.5	1.5		
No.of students attain the set value			18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Percentage of attainment (X)			100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Correlation Levels (If $0.5 \leq X < 0.6$ then $X=1$, Else $0.6 \leq X < 0.7$ then $X=2$, Else $0.7 \leq X \leq 1$ then $X=3$)			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
			CO1			CO2			CO3			CO4			CO5			CO6				
DIRECT CO ATTAINMENT			3			3			3			3			3			3			3	

Direct CO ATTAINMENT																					
University 67% and Internal assessment 33%(because University 100 marks and Internal assessment 50 marks)								Direct CO Attainment(80%)													
Internal 33% is divided as Internal tests 19%,Quiz 7%, and Assignment 7%								CO1	3												
								CO2	3												
								CO3	3												
								CO4	3												
								CO5	3												
								CO6	3												

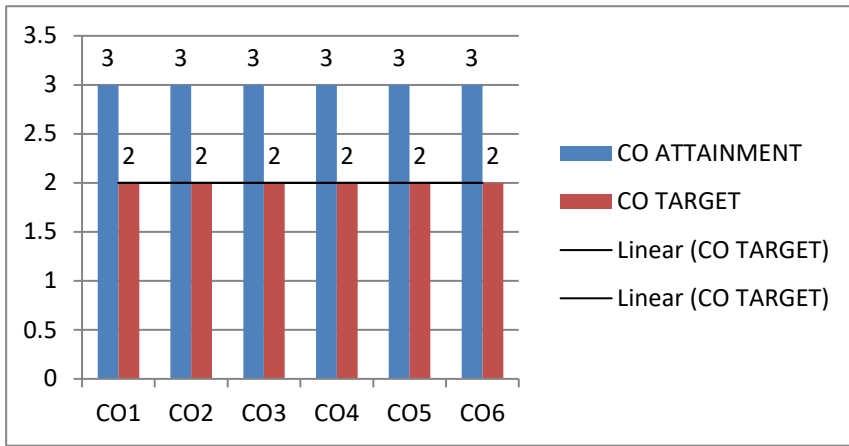
Average 3



Indirect Course Outcome Attainment

Subject - Operation Strategy(MBPC-3015) 2025-26

			Course Completion Feedback					
			Likert scale: 1(very low).....5(very high)					
Sl. No	Regd. No.	Name of Students	CO1	CO2	CO3	CO4	CO5	CO6
1	2306284170	SUBHODEEP GHOSH	3	3	3	5	4	4
2	2406284011	ADITYA NARAYANA PRUSTY	4	5	5	3	4	4
3	2406284020	ARITRA GUPTA	4	4	3	3	4	3
4	2406284023	ASHISH RATH	3	5	5	5	4	4
5	2406284025	ASMITA KAR	5	3	5	5	4	3
6	2406284028	AYUSH PATTANAIK	4	5	5	5	4	4
7	2406284034	BIBHUTI BHOI	5	3	4	4	3	4
8	2406284043	CHANDAN KUMAR SAHOO	5	3	5	5	5	3
9	2406284064	HRISHIKESH MAZUMDAR	5	5	5	5	5	4
10	2406284066	JANMEJAYA DAS	3	3	5	5	5	3
11	2406284071	JNANA RANJAN SWAIN	5	5	5	5	2	4
12	2406284085	MADHUSMITA SETHY	5	5	5	3	4	4
13	2406284095	MANORANJAN GOUDA	3	3	3	3	4	3
14	2406284152	RASHMI RANJAN SAHOO	3	5	5	4	2	4
15	2406284165	SAMEER PATRA	2	5	4	4	4	4
16	2406284169	SANGRAM PRUSTY	3	3	4	4	2	4
17	2406284235	SULATA HEMBRAM	4	5	4	4	4	4
18	2406284248	SWAPNARANI MAHAPATRA	4	5	4	4	4	4
		Average	3.89	4.17	4.39	4.22	3.78	3.72
	Indirect CO Attainment		3	3	3	3	3	3



CO	Direct CO Attainment(80 %)	Indirect CO Attainment(20 %)	Actual CO attainment	Target	Attained/Not Attained
CO1	3	3	3.00	2.00	Attained
CO2	3	3	3.00	2.00	Attained
CO3	3	3	3.00	2.00	Attained
CO4	3	3	3.00	2.00	Attained
CO5	3	3	3.00	2.00	Attained
CO6	3	3	3.00	2.00	Attained
Avg.			3.0	2	Attained

Operation Strategy(MBPC-3015) 2025-26

CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
CO1	2	3	2	2	3	2	3	3	3	3	2	2
CO2	2	3	2	3	2	3	2	2	2	2	3	3
CO3	3	3	3	3	3	2	3	3	3	2	3	3
CO4	3	3	2	2	2	3	3	3	3	2	2	3
CO5	2	3	3	2	2	3	2	2	2	3	2	3
CO6	3	2	3	3	3	3	3	3	3	3	3	3
AVG	2.5	2.8	2.5	2.5	2.5	2.7	2.7	2.7	2.7	2.5	2.5	2.8

Actual CO attainment		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4
3.00	CO1	2.0	3.0	2.0	2.0	3.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0
3.00	CO2	2.0	3.0	2.0	3.0	2.0	3.0	2.0	2.0	2.0	2.0	3.0	3.0
3.00	CO3	3.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0
3.00	CO4	3.0	3.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0
3.00	CO5	2.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	2.0	3.0	2.0	3.0
3.00	CO6	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
PO/PSO Attainment		2.5	2.8	2.5	2.5	2.5	2.7	2.7	2.7	2.7	2.5	2.5	2.8

Average	2.6	PO & PSO
Average	2.6	PO
Average	2.6	PSO

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
2.7	2.8	2.5	2.5	2.5	2.7	2.7	2.7

PSO1	PSO2	PSO3	PSO4
2.7	2.5	2.5	2.8

