

MOUNT ZION COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
COURSE OUTCOME ATTAINMENT THROUGH INTERNAL ASSESSMENT

Course outcome attainment through Internal Examinations																			University Exam Results	
				CIA						Assignment				Course Outcome Attainment						
Course Outcomes				CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5		CO6
Marks allotted				40	40	40	30	15	15	10	10	10	10	50	50	50	40	15		15
S.No	SPR No.	Registration Number	Student Name															%		
1	7822	911719106001	AARTHI R.	16	22	7	0	0	0	10	10	10	10	52.0	64.0	34.0	25.0	0.0	0.0	A
2	7807	911719106002	ABITHA S.	33	31	32	30	15	14	10	10	10	10	86.0	82.0	84.0	125.0	100.0	93.3	B
3	7743	911719106003	ANBURAJ S.	0	6	18	16	12	12	10	10	10	10	20.0	32.0	56.0	78.3	80.0	30.0	B
4	7832	911719106004	ARAVIND M.	17	20	17	20	10	11	10	10	10	10	54.0	60.0	54.0	91.7	66.7	73.3	B
5	7637	911719106005	ARUL ANTONY C.	31	15	0	12	8	10	10	10	10	10	82.0	50.0	20.0	65.0	53.3	66.7	B
6	7613	911719106006	ASHOK P.	26	13	9	12	6	6	10	10	10	10	72.0	46.0	38.0	65.0	40.0	40.0	B+
7	7764	911719106007	ASTHALAKSHMI M.	27	24	13	15	4	14	10	10	10	10	74.0	68.0	46.0	75.0	26.7	93.3	A
8	7860	911719106008	BENNY SP.	33	30	23	16	15	15	10	10	10	10	86.0	80.0	66.0	78.3	100.0	100.0	B
9	7720	911719106009	BEULA I.	33	29	32	28	8	10	10	10	10	10	86.0	78.0	84.0	118.3	53.3	66.7	B
10	7823	911719106010	DHANASEKARAN B.	32	27	18	20	12	12	10	10	10	10	84.0	74.0	56.0	91.7	80.0	80.0	A+
11	7780	911719106011	DHARNI S.	20	19	9	12	11	11	10	10	10	10	60.0	58.0	38.0	65.0	73.3	73.3	A+
12	7765	911719106012	FAHMITHA BANU A.	23	13	0	12	13	13	10	10	10	10	66.0	46.0	20.0	65.0	86.7	86.7	A
13	7692	911719106013	JASHMA S.	13	20	20	12	12	12	10	10	10	10	46.0	60.0	60.0	65.0	80.0	80.0	B+
14	7847	911719106014	KEERTHANA R.	32	19	9	12	8	6	10	10	10	10	84.0	58.0	38.0	65.0	53.3	40.0	A+
15	7666	911719106015	KHAUSHALYA M.	25	20	15	15	6	12	10	10	10	10	70.0	60.0	50.0	75.0	40.0	80.0	O
16	7575	911719106016	MOHAMED IBRAHIM B.	33	24	18	16	8	11	10	10	10	10	86.0	68.0	56.0	78.3	53.3	73.3	A+
17	7739	911719106017	MOHAMED UMAR S.	0	6	34	28	12	12	10	10	10	10	20.0	32.0	88.0	118.3	80.0	80.0	A
18	7826	911719106018	PRABHAKARAN R.	33	31	23	20	10	13	10	10	10	10	86.0	82.0	66.0	91.7	66.7	86.7	A+
19	7841	911719106019	PRAVEENA S.	0	2	7	12	13	14	10	10	10	10	20.0	24.0	34.0	65.0	86.7	93.3	B+
20	7711	911719106020	PRIYADHARSHINI K.	0	6	21	12	14	12	10	10	10	10	20.0	32.0	62.0	65.0	93.3	80.0	A
21	7773	911719106021	RAJAMANICKAM G.	33	27	21	12	12	12	10	10	10	10	86.0	74.0	62.0	65.0	80.0	80.0	B
22	7716	911719106022	RAMESH R.	34	15	0	12	8	8	10	10	10	10	88.0	50.0	20.0	65.0	53.3	53.3	B+
23	7622	911719106023	RANJANI P.	33	30	23	15	16	16	10	10	10	10	86.0	80.0	66.0	75.0	106.7	106.7	A
24	7839	911719106024	RUBINI M.	17	26	20	16	5	5	10	10	10	10	54.0	72.0	60.0	78.3	33.3	33.3	O
25	7595	911719106025	SNEHA S.	32	19	14	28	12	12	10	10	10	10	84.0	58.0	48.0	118.3	80.0	80.0	B+




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26	7646	911719106026	SNEHA V.	26	28	25	20	14	14	10	10	10	10	72.0	76.0	70.0	91.7	93.3	93.3	B+
27	7876	911719106027	SNEKA S.	21	20	18	12	11	11	10	10	10	10	62.0	60.0	56.0	65.0	73.3	73.3	A+
28	7875	911719106028	SUBIKSHAN B.	30	30	14	12	12	12	10	10	10	10	80.0	80.0	48.0	65.0	80.0	80.0	A
29	7715	911719106029	THENDRAL D.	16	20	16	0	13	13	10	10	10	10	52.0	60.0	52.0	25.0	86.7	86.7	A
30	7828	911719106030	UDAIYAPPAN P.	29	31	23	0	14	14	10	10	10	10	78.0	82.0	66.0	25.0	93.3	93.3	B+
31	7639	911719106031	VASANTH G.	31	15	0	0	0	0	10	10	10	10	82.0	50.0	20.0	25.0	0.0	0.0	B+
32	7872	911719106032	VIDHYA V.	23	15	0	0	0	0	10	10	10	10	66.0	50.0	20.0	25.0	0.0	0.0	A+
33	7650	911719106033	VIJAYALAKSHMI S	0	12	34	28	12	12	10	10	10	10	20.0	44.0	88.0	118.3	80.0	80.0	B+
34	7992	911719106301	GOWTHAMAN S	18	4	4	0	11	11	10	10	10	10	55.0	28.0	28.0	25.0	73.3	73.3	B+
35	8110	911719106302	MADHAVAN K.	23	19	17	0	9	9	10	10	10	10	66.0	58.0	54.0	25.0	60.0	60.0	B+
														82.86	77.14	60.00	80.00	80.00	82.86	100




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CIA I																									
Course Code & Course Name				EC8452 - ELECTRONIC CIRCUITS II												Total Marks									
NBA Course Code				C211																					
Course Learning Outcomes				CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO						CO	CO	CO	CO	CO
Question Number				1	2	3	4	5	6	7	8	9	10	11	12	13			CO1	CO2	CO3	CO4	CO5	CO6	
Marks				2	2	2	2	2	2	2	2	2	2	2	13	13	14			40	20	0	0	0	0
S. No	SPR No.	Register No.	Student Name	Marks Awarded																					
1	7822	911719106001	AARTHI R.	2	2		1	2		2	1			7		8			16	9	0	0			
2	7807	911719106002	ABITHA S.	2	2	2	2	2	2	2	2	2	2	10	9	9			33	15	0	0			
3	7743	911719106003	ANBURAJ S.																0	0	0	0			
4	7832	911719106004	ARAVIND M.		2	2	1	1		2			2	9		9			17	11	0	0			
5	7637	911719106005	ARUL ANTONY C.	2	2	2	2	2	2	2	2	2	2	9	8	9			31	15	0	0			
6	7613	911719106006	ASHOK P.	2	2	2	2	2	1	2	2	2		9	4	6			26	10	0	0			
7	7764	911719106007	ASTHALAKSHMI M.	2	2		2	2	2	2	2	2	2	10	5	5			27	11	0	0			
8	7860	911719106008	BENNY SP.	2	2	2	2	2	2	2	2	2	2	9.5	9.5	9			33	15	0	0			
9	7720	911719106009	BEULA I.	1	2	2	2	2	2	2	2	2	2	10	10	9			33	15	0	0			
10	7823	911719106010	DHANASEKARAN B.	2	2	2	2	2	2	2	2	2	2	9	9	8			32	14	0	0			
11	7780	911719106011	DHARNI S.	2	2	2	1	1	0	2	1	2		10		8			20	11	0	0			
12	7765	911719106012	FAHMITHA BANU A.	2	2		2	2		2	1	2	2	9	4	8			23	13	0	0			
13	7692	911719106013	JASHMA S.	0	2	2	1	0	1	0	1	1	2	5	2	7			13	11	0	0			
14	7847	911719106014	KEERTHANA R.	2	2	2	2	2	2	2	2	2	2	10	8	8			32	14	0	0			
15	7666	911719106015	KHAUSHALYA M.	0	2	2	1	0	0	1	1	1	1	10	9	8			25	11	0	0			
16	7575	911719106016	MOHAMED IBRAHIM B	1	2	2	2	2	2	2	1	2	2	10	10	10			33	15	0	0			
17	7739	911719106017	MOHAMED UMAR S.																0	0	0	0			
18	7826	911719106018	PRABHAKARAN R.	2	2	2	2	2	2	2	2	2	2	9.5	9.5	10			33	16	0	0			
19	7841	911719106019	PRAVEENA S.																0	0	0	0			
20	7711	911719106020	PRIYADHARSHINI K.																0	0	0	0			
21	7773	911719106021	RAJAMANICKAM G.	2	2	2	2	2	2	2	2	2	2	10	9	9			33	15	0	0			
22	7716	911719106022	RAMESH R.	2	2	2	2	2	2	2	2	2	2	10	10	9			34	15	0	0			
23	7622	911719106023	RANJANI P.	2	2	2	2	2	2	2	2	2	2	9.5	9.5	9			33	15	0	0			

Absent

Absent

Absent

Absent




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24	7839	911719106024	RUBINI M.		2	2	2			2	2	2	2	9		8			17	14	0	0		
25	7595	911719106025	SNEHA S.	2	2	2	2	2	2	2	2	1	2	10	8	6			32	11	0	0		
26	7646	911719106026	SNEHA V.		2	2	2	2		2	2	2	2	10	6	9			26	15	0	0		
27	7876	911719106027	SNEKA S.	0	2	2	2	2			2	2	1	10	3	7			21	12	0	0		
28	7875	911719106028	SUBIKSHAN B.	2	2	2	2	2	2	2	2	2	2	10	6	10			30	16	0	0		
29	7715	911719106029	THENDRAL D.	0	2	2	2	1	1	0	2	2	2	4	4	6			16	12	0	0		
30	7828	911719106030	UDAIYAPPAN P.	2	2	2	2	2	2	2	2	2	2	9	6	9			29	15	0	0		
31	7639	911719106031	VASANTH G.	2	2	2	2	2		2	2	2	2	10	9	9			31	15	0	0		
32	7872	911719106032	VIDHYA V.	2	2	2	2	2	2	2	2	2	2		9	9			23	15	0	0		
33	7650	911719106033	VIJAYALAKSHMI S																0	0	0	0		
34	7992	911719106301	GOWTHAMAN S		2		2	2	0	2				9.5		0			17.5	0	0	0		
35	8110	911719106302	MADHAVAN K.	2	2	2	2	2	2					9		8			23	8	0	0		

Absent

Enter course outcome as values
CO1 - CO2 - CO3 - CO4 - CO4 - 6
Enter mark allotted for the question



Rh

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Thirumayam (Tk), Pudukkottai - 622 507

CIA II																											
Course Code & Course Name				EC8452 - ELECTRONIC CIRCUITS II												Total Marks											
NBA Course Code				C211																							
Course Learning Outcomes				CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO								CO	CO	CO	CO	CO
Question Number				1	2	3	4	5	6	7	8	9	10	11	12	13					CO1	CO2	CO3	CO4	CO5	CO6	
Marks				2	2	2	2	2	2	2	2	2	2	2	14	13	13					0	20	40	0		
S. No	SPR No.	Registration Number	Student Name	Marks Awarded																							
1	7822	911719106001	AARTHI R.	1	2	2	2	1	2	2	0	0		8		0			0	13	7	0					
2	7807	911719106002	ABITHA S.	2	2	2	2	2	2	2	2	2	2	10	10	8			0	16	32	0					
3	7743	911719106003	ANBURAJ S.	2	2	2	1	1	0	2	0	1	1	0	8	4			0	6	18	0					
4	7832	911719106004	ARAVIND M.	2	2	2	2	0	1	2	1	2		3	9				0	9	17	0					
5	7637	911719106005	ARUL ANTONY C.																0	0	0	0			Absent		
6	7613	911719106006	ASHOK P.	1		2		2		2	2	1				2			0	3	9	0					
7	7764	911719106007	ASTHALAKSHMI M.	2	1	2	2	2	2	1	1	2	1	8		2			0	13	13	0					
8	7860	911719106008	BENNY SP.	2	2	2	2	2	2	2	2	2	2	9	9				0	15	23	0					
9	7720	911719106009	BEULA I.	2	2	1	2	2	2	2	2	2	2	9	10	8			0	14	32	0					
10	7823	911719106010	DHANASEKARAN B.	2	2	1	2	2	2	2	1	2	2	8	5				0	13	18	0					
11	7780	911719106011	DHARNI S.	0	0	0		0	0	0	0	2	2	8		5			0	8	9	0					
12	7765	911719106012	FAHMITHA BANU A.																0	0	0	0			Absent		
13	7692	911719106013	JASHMA S.	1	2	2	2	2	2	2	1	2	2	4	7				0	9	20	0					
14	7847	911719106014	KEERTHANA R.	2	2	0		2	2	0	0	1	2	1		2			0	5	9	0					
15	7666	911719106015	KHAUSHALYA M.	1	2		2	2	1	2		2	1	6		5			0	9	15	0					
16	7575	911719106016	MOHAMED IBRAHIM B	2	2	0	2	2		2	2	2	1	5	7				0	9	18	0					
17	7739	911719106017	MOHAMED UMAR S.	2	2	2	2	2	2	2	2	2		10	10				0	6	34	0					
18	7826	911719106018	PRABHAKARAN R.	2	2	1	2	2	2	2	2	2	2	10		9			0	15	23	0					
19	7841	911719106019	PRAVEENA S.	0	0	0	0	0	1	0	0	0	0	2		6			0	2	7	0					
20	7711	911719106020	PRIYADHARSHINI K.	2	2	0	2	2		2	2	2	2	9					0	6	21	0					
21	7773	911719106021	RAJAMANICKAM G.	2	2	2	2	2	2	1	0	2	2	6		10			0	12	21	0					
22	7716	911719106022	RAMESH R.																0	0	0	0			Absent		
23	7622	911719106023	RANJANI P.	2	2	1	2	2	2	2	2	1	2	10		10			0	15	23	0					




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24	7839	911719106024	RUBINI M.	2	2	2	2	2	1	2	1	2	6	10	0	12	20	0			
25	7595	911719106025	SNEHA S.	2	2	0	1	2	2	0	1	2	4	4	0	8	14	0			
26	7646	911719106026	SNEHA V.	1	2	2	2	2	2	2	2	2	8	4	7	0	13	25	0		
27	7876	911719106027	SNEKA S.	2	2	2	2	2	2	1	1	2	10	0	8	18	0				
28	7875	911719106028	SUBIKSHAN B.	2	2	2	2	2	2	2	0	2	8	2	0	14	14	0			
29	7715	911719106029	THENDRAL D.	2	2	0	1	2	2	2	2	0	4	5	0	8	16	0			
30	7828	911719106030	UDAIYAPPAN P.	2	2	2	2	2	2	2	1	2	10	10	0	16	23	0			
31	7639	911719106031	VASANTH G.												0	0	0	0			
32	7872	911719106032	VIDHYA V.												0	0	0	0			
33	7650	911719106033	VIJAYALAKSHMI S	1	2	2	2	2	2	2	1	3	7	10	10	0	12	34	0		
34	7992	911719106301	GOWTHAMAN S	0	2			2	2	0		2			0	4	4	0			
35	8110	911719106302	MADHAVAN K.	2	2	2	2	2	0	0	2	1	2	5	8	0	11	17	0		

Absent
Absent

Enter course outcome as values
CO1 - CO2 - CO3 - CO4 - CO4 - 6
Enter mark allotted for the question




Principal,
MOUNT ZION COLLEGE OF ENGG. TECH.,
Lenavilakku, Pilivalam (Po),
Thirumayam (Tk), Pudukkottai - 622 501

CIA II																										
Course Code & Course Name			EC8452 - ELECTRONIC CIRCUITS II												Total Marks											
NBA Course Code			C211																							
Course Learning Outcomes			CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO						
			4	4	4	4	4	4	4	4	4	4	5	6	4	5	6									
Question Number			1	2	3	4	5	6	7	8	9	10	11	12	13			CO1	CO2	CO3	CO4	CO5	CO6			
Marks			2	2	2	2	2	2	2	2	2	2	14	13	13						30	15	15			
S. No	SPR No.	Registration Number	Student Name	Marks Awarded																						
1	7822	911719106001	AARTHI R.	1	2	2	2	1	2	2	0	0		8		0			0			0	0	0	Absent	
2	7807	911719106002	ABITHA S.	2	2	2	2	2	2	2	2	2	2	10	10	8			0				30	15	14	
3	7743	911719106003	ANBURAJ S.	2	2	2	1	1	0	2	0	1	1	0	8	4			0				16	12	12	
4	7832	911719106004	ARAVIND M.	2	2	2	2	0	1	2	1	2		3	9				0				20	10	11	
5	7637	911719106005	ARUL ANTONY C.																0				12	8	10	Absent
6	7613	911719106006	ASHOK P.	1		2		2		2	2	1				2			0				12	6	6	
7	7764	911719106007	ASTHALAKSHMI M.	2	1	2	2	2	2	1	1	2	1	8		2			0				15	4	14	
8	7860	911719106008	BENNY SP.	2	2	2	2	2	2	2	2	2	2	9	9				0				16	15	15	
9	7720	911719106009	BEULA I.	2	2	1	2	2	2	2	2	2	2	9	10	8			0				28	8	10	
10	7823	911719106010	DHANASEKARAN B.	2	2	1	2	2	2	2	1	2	2	8	5				0				20	12	12	
11	7780	911719106011	DHARNI S.	0	0	0		0	0	0	0	2	2	8		5			0				12	11	11	
12	7765	911719106012	FAHMITHA BANU A.																0				12	13	13	Absent
13	7692	911719106013	JASHMA S.	1	2	2	2	2	2	2	1	2	2	4	7				0				12	12	12	
14	7847	911719106014	KEERTHANA R.	2	2	0		2	2	0	0	1	2	1		2			0				12	8	6	
15	7666	911719106015	KHAUSHALYA M.	1	2		2	2	1	2		2	1	6		5			0				15	6	12	
16	7575	911719106016	MOHAMED IBRAHIM B	2	2	0	2	2		2	2	2	1	5	7				0				16	8	11	
17	7739	911719106017	MOHAMED UMAR S.	2	2	2	2	2	2	2	2	2		10	10				0				28	12	12	
18	7826	911719106018	PRABHAKARAN R.	2	2	1	2	2	2	2	2	2	2	10		9			0				20	10	13	
19	7841	911719106019	PRAVEENA S.	0	0	0	0	0	1	0	0	0	0	2		6			0				12	13	14	
20	7711	911719106020	PRIYADHARSHINI K.	2	2	0	2	2		2	2	2	2	2	9				0				12	14	12	
21	7773	911719106021	RAJAMANICKAM G.	2	2	2	2	2	2	1	0	2	2	6		10			0				12	12	12	
22	7716	911719106022	RAMESH R.																0				12	8	8	Absent
23	7622	911719106023	RANJANI P.	2	2	1	2	2	2	2	2	1	2	10		10			0				15	16	16	




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24	7839	911719106024	RUBINI M.	2	2	2	2	2	1	2	1	2	6	10	0	
25	7595	911719106025	SNEHA S.	2	2	0	1	2	2	2	0	1	2	4	4	0
26	7646	911719106026	SNEHA V.	1	2	2	2	2	2	2	2	2	8	4	7	0
27	7876	911719106027	SNEKA S.	2	2	2	2	2	2	1	1	2	10	0	0	
28	7875	911719106028	SUBIKSHAN B.	2	2	2	2	2	2	2	0	2	8	2	0	
29	7715	911719106029	THENDRAL D.	2	2	0	1	2	2	2	2	0	4	5	0	
30	7828	911719106030	UDAIYAPPAN P.	2	2	2	2	2	2	2	1	2	10	10	0	
31	7639	911719106031	VASANTH G.												0	
32	7872	911719106032	VIDHYA V.												0	
33	7650	911719106033	VIJAYALAKSHMI S	1	2	2	2	2	2	2	1	3	7	10	10	0
34	7992	911719106301	GOWTHAMAN S	0	2			2	2	0			2		0	
35	8110	911719106302	MADHAVAN K.	2	2	2	2	2	0	0	2	1	2	5	8	0

16	5	5
28	12	12
20	14	14
12	11	11
12	12	12
0	13	13
0	14	14
0	0	0
0	0	0
28	12	12
0	11	11
0	9	9

Absent
Absent

Enter course outcome as values
CO1 - CO2 - CO3 - CO4 - CO4 - 6
Enter mark allotted for the question

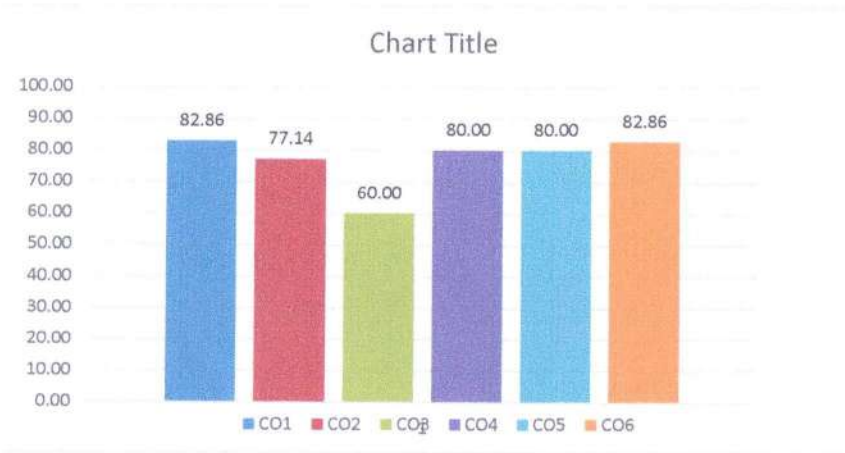


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Measuring CO attainment through Cumulative Internal Examinations (CIE)

Target level = 50% Marks
(Benchmark)

Course outcome attainment



Measuring Course Outcomes attained through Semester End Examinations (SEE)

Target level =
(Benchmark)

Internal Assessment	15.43
Pass percentage of University Exam result	80
CO attainment	95.43

80

Attainment level (1/2/3)




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Course Outcomes (CO) – Program Outcomes (PO) mapping

Program Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211	3	2	1			1				1		1

PO attainment calculation (80 % from direct assesment + 20 % from indirect assesment)

80% direct assesment - Student perfomance (Internal examination, assignment, Lab exercise assesment, seminar, miniproject, project, etc.,)

20% Indirect assesment - exit surveys (student exit surveys, employer surveys, co-curricular activities, extracurricular activities etc)

Direct assesment calculation

If 50% of student are more than the target value in CO attainment - 1 (1/3 Of mapped value in the matrix can be calculated for PO attainment)

If 60% of student are more than the target value in CO attainment - 2 (2/3 Of mapped value in the matrix can be calculated for PO attainment)

If 70% of student are more than the target value in CO attainment - 3 (same mapped value in the matrix can be calculated for PO attainment)

Example 1: If CO attainment caluated is 56%, then (> 50%)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211	1.0	0.7	0.3			0.3				0.3		0.3

Example 2: If CO attainment caluated is 65%, then (> 60%)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211	2.0	1.3	0.7			0.7				0.7		0.7



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Example 3: If CO attainment calculated is 91%, then (> 70%)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211	3	2	1			1				1		1

PO attainment Overall												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	3	2	1			1				1		1
C102												
C103												
C104												
C105												
C106	2	2	2			2				1		1
C107												
C108												
C201	3	1	1			1				1		1
....												
....												
....												
C409	3	2	1			3				1		1
Direct Attainment	2.75	1.75	1.25			1.75				1		1
Indirect Attainment	2	1	1			1				1		1
PO attainment 80 % of direct attainment + 20% of indirect attainment												
Direct attainment =	2.2	1.4	1			1.4				0.8		0.8
Indirect attainment =	0.4	0.2	0.2			0.2				0.2		0.2
PO attainment	2.6	1.6	1.2			1.6				1		1



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