

2.6.2 Attainment of POs and COs are evaluated

Illustration of CO Attainment for Course C204 Object Oriented Programming using JAVA:

Step1: Course Outcomes

	C204 Object Oriented Programming using JAVA At the end of the course, the student will be able to	Bloom's Level
C204.1	Apply software design methods and Unified Modelling Language notations to create effective and efficient system designs	L3
C204.2	Develop Java application programs using java constructs, operators, control statements, built in packages, input /output streams, files and libraries and advanced features of java	L3
C204.3	Apply object-oriented features to solve various computing problems using Java.	L3
C204.4	Illustrate exception handling mechanism in Java.	L2
C204.5	Develop application programs in Java using multithreading and database connectivity.	L3
C204.6	Develop GUI based application programs in java utilizing event handling and Swing.	L3

Step 2: Setting levels: Attainment Level % and attainment levels (Level 1, Level 2 and Level 3) for each assessment component are fixed for a particular course.



ASSESSMENT TOOLS	TARGETS			
	PERCENTAGE OF MARKS	% OF STUDENTS		
		Level 1	Level 2	Level 3
CA Test1	50	55	60	65
CA Test2	50	55	60	65
CA Assignment1	70	60	65	70
CA Assignment2	70	60	65	70
CA Assignment3	70	60	65	70
CT	50	55	60	65
University Exam (Grade)	D	55	60	65

Step 3: Fixing Weightages: Each assessment tool is given an appropriate weightage.

WEIGHTAGE OF ASSESSMENT TOOLS	CO 1	CO 2	CO 3	CO 4	CO 5	CO6
CA Test1	40	30	35			
CA Assignment1	20	20				
CA Test2		25	20	70	30	50
CA Assignment 2			20	30	20	
CA Assignment 3					20	20
CT	40	25	25		30	30

Step 4: Marks recorded against assessment tests, assignments and class tests.

Step 4.1 Marks for Continuous Assessment Test I and Test II

 ToC H INSTITUTE OF SCIENCE AND TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING		 CA TEST 1							
S.NO.	REGISTER NUMBER	Questions							
	Marks Out of >>	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
	CO'S >>	CO2	CO3	CO3	CO2	CO2	CO1	CO3	CO3
1	TOC20CS001	2.5	3	2	3	3	6	6	4.5
2	TOC20CS002	2	0.5	2.5	1.5	0	13	1.5	2
3	TOC20CS003	2.5	1.5	0.5	2.5	3	8.5	0	1.5
4	TOC20CS004	2	1.5	2	2.5	2	10.5	7	6.5
5	TOC20CS005	2.5	0	2.5	3	0.5	10	1	0.5

CA TEST II								
REGISTER NUMBER	Ques							
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
	Marks Out of >>	3	3	3	3	14	14	7
CO'S >>	CO3	CO2	CO3	CO2	CO6	CO6	CO5	CO4
TOC20CS001	2.5	2	0	0	3	0	0	6
TOC20CS002	0	1.5	0	1	3	3.5	8.5	5
TOC20CS003	2	2	1.5	2	2.5	6	5	5
TOC20CS004	2	2.5	2.5	2.5	3	9	12.5	6

Step 4.2 Marks for Assignments and Class tests



REGISTER NUMBER	Assignment 1				Assignment 2				Assignment 3	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
	Marks Out of >>	5	3	4	3	4	4	4	3	5
CO'S >>	CO2	CO1	CO1	CO2	CO5	CO3	CO3	CO4	CO6	CO5
TOC20CS001	5	2.5	4	3	3.5	4	4	2.5	4	9
TOC20CS002	4.5	2.5	4	3	3	4	4	3	4	8
TOC20CS003	4.5	2.5	4	3	3	4	4	3	5	9
TOC20CS004	4.5	2.5	3	3	3	3	4	3	4	9
TOC20CS005	4	3	4	3	3	4	4	3	4	9

REGISTER NUMBER	CT													
	CT1				CT2	CT3				CT4				
Marks Out of >>	5	6	4	5	15	6	3	3	3	6	17	3	12	12
CO'S >>	CO1	CO2	CO1	CO1	CO3	CO2	CO2	CO3	CO2	CO1	CO2	CO3	CO5	CO6
TOC20CS001	3	4	3	3	15	4	3	2	0	4	6	2	9	9
TOC20CS002	3	4	3	3.5	9	3	3	2	0	3	2	2	3	6
TOC20CS003	4.5	4	3	1.5	15	4	3	2	0	2	9	2	7	6
TOC20CS004	4.5	5	3.5	3.5	8	5	3	2	2	2	9	2	7	7
TOC20CS005	4	4	3	0	15	5	2	2	0	0	9	2	7	6


Step 5: Percentage of Marks for each CO & Level attained for each assessment tools

S.NO.	REGISTER NUMBER	CO 1			CO 2				CO 3				CO4		CO5			CO6			
		CA 1 14	A1 7	CT 20	CA 1 9	IA 2 6	A1 8	CT 35	CA 1 27	CA 2 6	A2 8	CT 21	CA 2 7	A2 3	CA 2 14	A2 4	A3 10	CT 12	CA 2 17	A3 5	CT 12
1	TOC20CS001	42.86%	92.86%	65.00%	94.44%	33.33%	100.00%	48.57%	57.41%	41.67%	100.00%	90.48%	85.71%	83.33%	0.00%	87.50%	90.00%	75.00%	17.65%	80.00%	75.00%
2	TOC20CS002	92.86%	92.86%	62.50%	38.89%	41.67%	93.75%	34.29%	24.07%	0.00%	100.00%	61.90%	71.43%	100.00%	60.71%	75.00%	80.00%	25.00%	38.24%	80.00%	50.00%
3	TOC20CS003	60.71%	92.86%	55.00%	88.89%	66.67%	93.75%	57.14%	12.96%	58.33%	100.00%	90.48%	71.43%	100.00%	35.71%	75.00%	90.00%	58.33%	50.00%	100.00%	50.00%
4	TOC20CS004	75.00%	78.57%	67.50%	72.22%	83.33%	93.75%	68.57%	62.96%	75.00%	87.50%	57.14%	85.71%	100.00%	89.29%	75.00%	90.00%	58.33%	70.59%	80.00%	58.33%
5	TOC20CS005	71.43%	100.00%	35.00%	66.67%	58.33%	87.50%	57.14%	14.81%	75.00%	100.00%	90.48%	85.71%	100.00%	35.71%	75.00%	90.00%	58.33%	29.41%	80.00%	50.00%
45	TOC20CS045	57.14%	92.86%	35.00%	83.33%	33.33%	93.75%	11.43%	35.19%	25.00%	100.00%	42.86%	92.86%	83.33%	50.00%	87.50%	80.00%	0.00%	35.29%	100.00%	0.00%
46	TOC20CS046	71.43%	100.00%	72.50%	55.56%	83.33%	87.50%	25.71%	48.15%	91.67%	100.00%	47.62%	85.71%	100.00%	92.86%	100.00%	80.00%	41.67%	44.12%	100.00%	50.00%
No. of Students Scored >= Target %		33	44	29	36	34	44	29	18	31	46	37	36	46	26	46	46	34	22	41	42
% of Students Scored >= Target %		72%	96%	63%	78%	74%	96%	63%	39%	67%	100%	80%	78%	100%	57%	100%	100%	74%	48%	89%	91%
Attainment Level		Level 3	Level 3	Level 2	Level 3	Level 3	Level 3	Level 2	Level Not Attained	Level 3	Level 3	Level 3	Level 3	Level 3	Level 1	Level 3	Level 3	Level 3	Level Not Attained	Level 3	Level 3
Attainment Level Value		3	3	2	3	3	3	2	0	3	3	3	3	3	1	3	3	3	0	3	3

Step 6: University Marks, Grade Point and attainment: Based on the target set initially, the attainment level will be calculated.

 TOC H INSTITUTE OF SCIENCE AND TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
UNIVERSITY ASSESSMENT			
S.NO.	REGISTER NUMBER	UNIVERSITY GRADE	UNIVERSITY GRADE POINT
1	TOC20CS001	B	7.5
2	TOC20CS002	C	6.5
3	TOC20CS003	D	6.0
4	TOC20CS004	B+	8.0
5	TOC20CS005	C	6.5
6	TOC20CS006	B+	8.0
7	TOC20CS007	A	8.5
8	TOC20CS008	B	7.5
9	TOC20CS009	C+	7.0
10	TOC20CS010	C	6.5
Target Set		D	6.0
No. of Students Scored >= Target %		39	
% of Students Scored >= Target %		85	
Attainment Level		Level 3	
Attainment Level Value		3	

Step 7: Indirect Attainment: Course End Survey

 Department of Computer Science & Engineering						
Course End Survey Analysis CST 205 OOP (July Dec 2021-'22) S3 2020 adm.						
Sl.No	Course Outcomes	No of students marked as Level 1	No of students marked as Level 2	No of students marked as Level 3	Average	Rounded Average
1	CO1	0	24	22	2.52	3
2	CO2	1	13	32	2.67	3
3	CO3	1	5	40	2.52	3
4	CO4	1	13	32	2.67	3
5	CO5	0	9	37	2.80	3
6	CO6	3	13	30	2.59	3
Number of Students					46	

Step 8: CO Attainment

CO	CA Test1	CA Test2	CA-A1	CA-A2	CA-A3	CT	Attainment through Internal Assessment	Attainment through University Assessment	Direct CO Attainment	Indirect Attainment	Total CO Attainment
CO1	3	0	3	0	0	2	2.6	3	2.84	2.52	2.78
CO2	3	3	3	0	0	2	2.75	3	2.9	2.67	2.85
CO3	0	3	0	3	0	3	1.95	3	2.58	2.52	2.57
CO4	0	3	0	3	0	0	3	3	3	2.67	2.93
CO5	0	1	0	3	3	3	2.4	3	2.76	2.80	2.77
CO6	0	0	0	0	3	3	1.5	3	2.4	2.59	2.44
Average Course Attainment											2.72

Attainment of CO1:

Attainment through Internal Assessment of CO1 = $[(40 \times 3) + (20 \times 3) + (40 \times 2)] / 100 = 2.6$

$[(\text{Weightage component of CA-Test1} \times \text{Attainment level of CO1 for CA-Test1}) + (\text{Weightage component of CA-A1} \times \text{Attainment level of CO1 for CA-A1}) + (\text{Weightage component of CT} \times \text{Attainment level of CO1 for CT})] / 100$

Direct CO Attainment = 40% of Internal Assessment + 60% of University Assessment

$$= (0.4 \times 2.6) + (0.6 \times 3) = 2.84$$

Total CO Attainment == 80% of Direct CO Attainment + 20% of Indirect Attainment

$$= (0.8 \times 2.84) + (0.2 \times 2.52) = 2.78$$

Similarly, attainment of all COs calculated and its average is determined.

Illustration of PO, PSO Attainment for Course C204 Object Oriented Programming using JAVA:

Step 1: Direct Attainment: =

Average CO attainment of the Course * (Average Correlation Level of the Course / 3)

Course Outcomes	Mapping of Course Outcomes to PO and PSO													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	-	-	-	-	-	-	-	3	3	3
CO2	3	3	3	2	-	-	-	-	-	-	-	3	3	3
CO3	3	3	3	2	-	-	-	-	-	-	-	3	3	3
CO4	2	2	2		-	-	-	-	-	-	-	3	2	2
CO5	3	3	3	2	-	-	-	-	-	-	-	3	3	3
CO6	3	3	3	2	-	-	-	-	-	-	-	3	3	3
TOTAL	17	17	17	10	-	-	-	-	-	-	-	18	17	17
No: of COs Mapped	6	6	6	5	-	-	-	-	-	-	-	6	6	6
Average Correlation Level (ACL)	2.8	2.8	2.8	2.0	-	-	-	-	-	-	-	3.0	2.8	2.8
ACL(Rounded)	3	3	3	2	-	-	-	-	-	-	-	3	3	3
Average CO attainment	2.72													
PO/PSO ATTAINMENT	2.72	2.72	2.72	1.82	-	-	-	-	-	-	-	2.72	2.72	2.72

PO, PSO Attainment Calculation for each Academic Year:

Step 1: i. Direct Attainment: Calculate the average of PO and PSO attainment of all courses

ii. Indirect Attainment: Calculate the average of Program Exit Survey, Alumni Feedback and Event Exit Survey.

Step2: The total attainment of individual Program Outcomes (POs) and Program Specific Outcomes (PSOs) is calculated, assigning an 80:20 weightage for Direct and Indirect measures

Sample CO Attainment of Courses of Department of CSE

Academic Year: 2021-'22

Sl No	Code	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8	CO9	CO10	AVERAGE
1	C101	2.87	2.63	2.89	2.73	2.97						2.82
2	C102	2.64	2.71	2.80	2.72	2.92						2.75
3	C103	2.71	2.62	3.00	3.00	3.00	2.76					2.85
4	C104	2.67	1.82	2.43	2.69	2.43	2.36	2.32	2.48	2.51	2.37	2.41
5	C105	3.00	2.42	3.00	2.61	3.00	3.00					2.84

6	C106	2.90	2.95	2.92	2.94	2.96	2.98					2.94
7	C107	2.90	2.93	2.92	2.94	2.93	2.92	2.94	2.90			2.92
8	C108	2.46	2.65	2.83	2.76	2.80						2.70
9	C109	3.00	2.81	2.96	3.00	2.98						2.95
10	C110	2.69	2.47	2.90	2.18	2.09						2.47
11	C111	2.43	2.76	2.91	2.65	2.79	2.96					2.75
12	C112	3.00	2.90	2.87	2.74	2.42	3.00					2.82
13	C113	2.72	2.64	2.91	2.83	2.87	2.85					2.80
14	C114	2.98	2.98	2.98	2.98	2.98						2.98
15	C115	3.00	3.00	3.00	2.60	2.60	2.60	3.00				2.83
16	C201	2.80	2.90	2.73	2.90	2.68						2.80
17	C202	2.67	2.59	2.54	2.64	2.52						2.59
18	C203	2.95	2.84	2.64	2.65	2.45						2.71
19	C204	2.78	2.85	2.57	2.93	2.58	2.44					2.69
20	C205	2.67	2.46	2.32	2.23	2.75						2.48
21	C206	2.97	2.98	2.99	2.98	2.72						2.93
22	C207	2.49	2.55	2.45	2.41	2.47	2.47					2.47
23	C208	2.70	2.70	2.70	2.72	2.69						2.70
24	C209	2.75	2.99	2.49	2.84	2.98						2.81

25	C210	2.72	2.60	2.51	2.77	2.79	2.94					2.72
26	C211	2.91	2.89	2.63	2.91	2.52	2.36	3.00				2.75
27	C212	2.37	2.59	2.54	2.84	2.63						2.59
28	C213	2.85	2.66	2.68	2.84	2.94						2.79
29	C214	2.42	2.84	3.00	2.68	2.62	2.52					2.68
30	C215	2.84	3.00	2.68	3.00							2.88
31	C216	2.97	2.97	2.98	2.97							2.97
32	C301	2.51	2.87	2.40	2.42	2.20						2.48
33	C302	2.97	2.63	2.22	2.42	2.49	2.32					2.51
34	C303	2.91	2.31	2.33	2.33	1.96	2.89					2.45
35	C304	2.61	2.58	2.88	2.80	2.53						2.68
36	C305	2.40	2.89	2.51	2.46	2.71						2.59
37	C306	2.91	2.41	2.57	2.52	2.23	2.62					2.54
38	C307	2.91	2.89	2.89	2.84	2.91						2.89
39	C308	2.89	2.86	2.88	2.81	2.82	2.79					2.84
40	C309	2.94	2.74	2.54	2.15	2.23	2.94					2.59
41	C310	2.57	2.67	2.76	2.81	2.82	2.92					2.76
42	C311	2.90	2.87	2.88	2.23	2.82						2.74
43	C312	2.37	2.70	2.89	2.84	2.91	2.36					2.68

44	C313	2.96	2.36	2.92	2.80	2.90						2.79
45	C314	2.42	2.23	2.88	2.55	2.82						2.58
46	C315	3.00	3.00	3.00	3.00	3.00						3.00
47	C316	2.90	2.87	2.88	2.90	2.87						2.88
48	C317	2.91	2.88	2.89	2.85	2.85						2.88
49	C401	2.28	3.00	2.76	3.00	3.00						2.81
50	C402	3.00	2.28	2.40	3.00	3.00						2.74
51	C403	2.34	3.00	3.00	2.34	3.00						2.74
52	C404	3.00	2.28	3.00	2.28	2.40						2.59
53	C405	3.00	2.04	2.52	2.28	3.00						2.57
54	C406	3.00	2.76	3.00	2.52	3.00						2.86
55	C407	2.34	3.00	2.78	2.34	3.00						2.69
56	C408	3.00	3.00	3.00	3.00	3.00						3.00
57	C409	3.00	3.00	3.00	3.00	3.00						3.00
58	C410	3.00	2.76	3.00	2.80	3.00						2.91
59	C411	3.00	2.28	3.00	3.00	3.00						2.86
60	C412	3.00	3.00	3.00	2.40	3.00						2.88
61	C413	3.00	2.76	3.00	2.36	3.00						2.82
62	C414	3.00	3.00	3.00	2.52	2.76						2.86

63	C415	2.15	3.00	3.00	3.00	3.00						2.83
64	C416	3.00	3.00	3.00	3.00	3.00						3.00

Sample PO, PSO Attainment of Department of CSE

Academic Year 2021-'22

Sl no	Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	C101	2.82	2.82	2.82	2.82	1.88	0.94	-	-	0.94	1.88	-	1.88
2	C102	0.92	0.92	0.92	0.92	1.84	-	2.75	-	-	-	-	-
3	C103	2.85	0.95	-	-	2.85	-	-	-	-	1.90	-	-
4	C104	2.41	1.61	-	0.80	2.41	2.41	2.41	2.41	1.61	-	-	-
5	C105	-	2.84	1.89	0.95	-	0.95	-	0.95	1.89	2.84	0.95	1.89
6	C106	2.94	-	-	-	1.96	-	-	-	-	-	-	2.94
7	C107	0.97	-	-	-	0.97	0.97	-	1.95	1.95	1.95	0.97	0.97
8	C108	2.70	2.70	2.70	2.70	1.80	0.90	-	-	0.90	1.80	-	1.80
9	C109	2.95	1.97	-	-	-	-	-	0.98	1.97	-	-	0.98
10	C110	2.47	2.47	-	-	-	-	-	-	-	-	-	-
11	C111	2.75	0.92	-	-	-	-	-	-	-	-	-	1.83
12	C112	0.94	0.94	-	-	-	0.94	-	-	0.94	2.82	-	1.88
13	C113	2.80	2.80	1.87	1.87	1.87	2.80	-	-	-	1.87	1.87	2.80

33	C302	2.51	2.51	2.51	1.67	-	1.67	-	-	-	-	-	2.51
34	C303	2.45	1.64	1.64	1.64	2.45	-	-	-	-	-	-	2.45
35	C304	2.68	1.79	1.79	1.79	-	-	-	-	-	-	-	0.89
36	C305	2.59	1.73	1.73	1.73	-	1.73	-	1.73	1.73	1.73	1.73	0.86
37	C306	2.54	2.54	1.70	1.70	1.70	1.70	2.54	2.54	-	2.54	-	1.70
38	C307	2.89	2.89	2.89	1.93	-	-	-	2.89	2.89	2.89	-	1.93
39	C308	2.84	2.84	2.84	1.89	1.89	1.89	-	2.84	2.84	-	1.89	1.89
40	C309	2.59	1.73	1.73	0.86	0.86	-	-	-	-	-	-	2.59
41	C310	2.76	2.76	1.84	1.84	-	0.92	-	-	-	-	-	1.84
42	C311	2.74	2.74	2.74	2.74	-	-	-	-	-	-	-	1.82
43	C312	2.68	2.68	2.68	2.68	2.68	-	-	-	-	-	-	2.68
44	C313	2.79	2.79	2.79	0.93	1.86	1.86	-	-	-	-	-	1.86
45	C314	1.72	1.72	0.86	-	1.72	1.72	2.58	-	-	-	2.58	-
46	C315	2.00	2.00	-	-	-	-	-	-	-	-	-	2.00
47	C316	2.88	2.88	2.88	1.92	2.88	1.92	-	2.88	1.92	2.88	-	2.88
48	C317	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
49	C401	2.81	1.87	1.87	-	-	-	-	-	-	-	-	1.87
50	C402	2.74	2.74	2.74	1.82	0.91	1.82	-	-	-	-	-	2.74
51	C403	2.74	1.82	1.82	2.74	0.91	-	0.91	-	-	-	-	-

52	C404	2.59	2.59	2.59	-	-	-	0.86	0.86	-	-	0.86	0.86
53	C405	2.57	1.71	1.71	1.71	1.71	-	-	-	-	-	-	0.86
54	C406	2.86	2.86	2.86	1.90	0.95	-	-	-	-	-	-	-
55	C407	2.69	2.69	2.69	1.79	-	-	-	-	-	-	-	-
56	C408	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
57	C409	3.00	3.00	3.00	-	3.00	-	1.00	-	3.00	3.00	-	-
58	C410	2.91	2.91	1.94	-	-	-	-	-	-	-	-	1.94
59	C411	2.86	1.90	1.90	0.95	0.95	0.95	0.95	0.95	-	-	-	2.86
60	C412	2.88	2.88	2.88	1.92	1.92	-	-	-	-	-	-	-
61	C413	1.88	1.88	2.82	1.88	1.88	1.88	-	1.88	-	-	-	1.88
62	C414	-	-	-	-	-	2.86	1.90	2.86	2.86	-	-	1.90
63	C415	2.83	1.89	-	-	-	-	-	-	-	-	-	-
64	C416	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Direct		2.56	2.27	2.29	1.73	1.96	1.74	2.13	2.22	2.14	2.29	1.87	1.96
Indirect		2.9	2.9	2.8	2.8	2.8	2.8	2.7	2.7	2.8	2.8	2.8	2.7
Total Attainment		2.63	2.4	2.39	1.94	2.13	1.95	2.24	2.32	2.27	2.39	2.06	2.11

AY 2021-'22

Sl no	Code	PSO1	PSO2
-------	------	------	------

1	C101	-	-
2	C102	-	-
3	C103	-	-
4	C104	-	-
5	C105	-	-
6	C106	-	-
7	C107	-	-
8	C108	-	-
9	C109	-	-
10	C110	-	-
11	C111	-	-
12	C112	-	-
13	C113	-	-
14	C114	-	-
15	C115	-	-
16	C201	1.87	2.80
17	C202	2.59	2.59
18	C203	1.80	1.80
19	C204	2.69	2.69

20	C205	2.48	2.48
21	C206	1.95	1.95
22	C207	2.47	2.47
23	C208	2.70	2.70
24	C209	2.81	1.87
25	C210	1.81	1.81
26	C211	2.75	2.75
27	C212	2.59	2.59
28	C213	-	2.79
29	C214	-	1.79
30	C215	1.92	1.92
31	C216	2.97	2.97
32	C301	2.48	1.65
33	C302	1.67	1.67
34	C303	2.45	1.64
35	C304	1.79	1.79
36	C305	1.73	1.73
37	C306	-	-
38	C307	2.89	1.93

39	C308	2.84	2.84
40	C309	2.59	2.59
41	C310	1.84	1.84
42	C311	2.74	2.74
43	C312	2.68	2.68
44	C313	2.79	2.79
45	C314	-	-
46	C315	2.00	2.00
47	C316	2.88	2.88
48	C317	2.88	2.88
49	C401	1.87	-
50	C402	2.74	2.74
51	C403	1.82	1.82
52	C404	1.73	1.73
53	C405	1.71	2.57
54	C406	2.86	2.86
55	C407	1.79	1.79
56	C408	3.00	3.00
57	C409	3.00	2.00

58	C410	2.91	1.94
59	C411	2.86	2.86
60	C412	2.88	2.88
61	C413	1.88	2.82
62	C414	1.90	2.86
63	C415	1.89	1.89
64	C416	3.00	3.00
Direct		2.39	2.36
Indirect		2.7	2.8
Total Attainment		2.45	2.45