

### Assessment Process

To record the attainment of course outcomes, the following assessment tools are used.

- Marks obtained in Continuous Internal Evaluation (CIE)
- Marks obtained in Semester End Examination (SEE).

### Continuous Internal Evaluation (CIE) :

Internal Assessment (IA) tests are conducted as per the academic calendar.

Question papers are planned and set by the respective faculty and course coordinator considering the Bloom's Taxonomy. The performances of the students in the IA test are assessed as per the scheme and solution prepared by the faculty.

Every question in the question paper is mapped to the relevant TLO. After reviewing the answer scripts, the course coordinator computes the level of attainment of TLO (like level 0, level 1, level 2, level 3) by considering the marks scored in each question by the individual student in accordance with the range of marks.

The defined COs are mapped with the IA question paper questions through TLOs and at the end of the course, CO attainments are calculated.

**Assignment, quiz and seminars** are mapped with relevant TLOs by the course coordinator. From the evaluation of these assessment tools, the TLO attainments are determined. The TLO attainments are then used for the computation of CO attainment along with IA.

Course coordinator defines a target attainment for the respective course. Target attainment goals of COs vary with the courses.

Sample Course File for CO Attainment Calculation based on marks obtained in Continuous Internal Evaluation (CIE) is given below:

### Semester End Examination (SEE)

Another metric for achieving CO is the SEE. The study focuses more on the achievement of course results through a descriptive examination. For each course, the SEE marks scored by all the students are considered. CO attainment calculation is explained in metric 3.2.2.



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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### Measuring Course Outcomes attained through Continuous Internal Evaluation

#### 2019-23 Batch

For 2019-23 Electronics and Communication Engineering students batch, Course Outcomes attained through Continuous Internal Evaluation is as highlighted in Table 2.6.2.a.

**Table 2.6.2.a Course Outcomes attained through Continuous Internal Evaluation for 2019-23 Batch**

Subject Code	Subject Code	Course Code	CO-Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	IA-Attainment	SEE-Attainment	Average-Attainment	
C101	18MAT11	C101	C101.1	2	3													2.40	2.58	2.49	
		C101	C101.2	1	2														2.30	2.58	2.44
		C101	C101.3	1	3														1.80	2.58	2.19
		C101	C101.4	1	3														2.35	2.58	2.47
		C101	C101.5	2	3														3.00	2.58	2.79
C102	18CHE12	C102	C102.1	3	2										2			2.40	2.43	2.42	
		C102	C102.2			3				2					2			3.00	2.43	2.72	
		C102	C102.3						1						2			2.80	2.43	2.62	
		C102	C102.4							3					2			2.80	2.43	2.62	
		C102	C102.5						2						2			2.30	2.43	2.37	
C103	18CPS13	C103	C103.1	3	3	2		1										3.00	2.16	2.58	

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		C103	C103.2		3	2	2								1		2.65	2.16	2.41
		C103	C103.3	1	2	2											3.00	2.16	2.58
		C103	C103.4		2	2									1		2.70	2.16	2.43
C104	18ELN14	C104	C104.1	2					1					2	2		2.80	1.97	2.39
		C104	C104.2	2		2								2	2		2.70	1.97	2.34
		C104	C104.3	2		2								2	2		3.00	1.97	2.49
		C104	C104.4	2		2								2	2		3.00	1.97	2.49
C105	18ME15	C105	C105.1	2										1			2.30	1.78	2.04
		C105	C105.2	2										1			3.00	1.78	2.39
		C105	C105.3	2										1			3.00	1.78	2.39
		C105	C105.4	2										1			3.00	1.78	2.39
		C105	C105.5	2										1			3.00	1.78	2.39
C106	18CHEL16	C106	C106.1	3		2							1	2			3.00	2.96	2.98
		C106	C106.2	2		1							1	2			3.00	2.96	2.98
		C106	C106.3					2					1	2			3.00	2.96	2.98
		C106	C106.4				1	3				1	2				3.00	2.96	2.98
C107	18CPL17	C107	C107.1	3													3.00	2.78	2.89
		C107	C107.2	3	3												3.00	2.78	2.89
		C107	C107.3		3	3											3.00	2.78	2.89
		C107	C107.4		3	3											3.00	2.78	2.89
C108	18EGH18	C108	C108.1					1			1	2		3			2.49	2.85	2.67
		C108	C108.2					2			2	2		3			2.49	2.85	2.67

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		C108	C108.3					1				2	2		3			2.49	2.85	2.67	
		C108	C108.4					1				1	1		1			2.49	2.85	2.67	
		C108	C108.5					2				2	3		3			2.49	2.85	2.67	
C109	18MAT21	C109	C109.1	2	3													3.00	2.29	2.65	
		C109	C109.2	1	2														2.35	2.29	2.32
		C109	C109.3	1	3														2.10	2.29	2.2
		C109	C109.4	1	3														3.00	2.29	2.65
		C109	C109.5	2	3														3.00	2.29	2.65
C110	18PHY22	C110	C110.1	3				1							1			3.00	2.29	2.65	
		C110	C110.2									1		1	1			3.00	2.29	2.65	
		C110	C110.3	2	2											1		3.00	2.29	2.65	
		C110	C110.4		2			2								1		3.00	2.29	2.65	
		C110	C110.5						2							1		3.00	2.29	2.65	
C111	18ELE23	C111	C111.1	2											2	2	1	3.00	2.29	2.65	
		C111	C111.2	2	2										2	2	1	3.00	2.29	2.65	
		C111	C111.3		2	2	1		3	3					2	2	1	2.85	2.29	2.57	
		C111	C111.4			2									2	2	1	2.85	2.29	2.57	
		C111	C111.5	2	2										2	2	1	2.70	2.29	2.5	
C112	18CIV24	C112	C112.1	1	2									2		1	3.00	2.29	2.65		
		C112	C112.2	2	2	3									1			3.00	2.29	2.65	
		C112	C112.3	2	2	3									1			2.50	2.29	2.4	
		C112	C112.4	2	2	3									1			3.00	2.29	2.65	

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		C112	C112.5	2	2	3									1		1	3.00	2.29	2.65
C113	18EDGL25	C113	C113.1	2					3									3.00	2.52	2.76
		C113	C113.2	3	2	2			3									3.00	2.52	2.76
		C113	C113.3	3	2	2			3									3.00	2.52	2.76
		C113	C113.4	3	2	2			3									3.00	2.52	2.76
		C113	C113.5	3	3	3	2	3										3.00	2.52	2.76
C114	18PHYL26	C114	C114.1	3				1	2			1	1		1			3.00	2.29	2.65
		C114	C114.2	3	2	1						1	1		1			3.00	2.29	2.65
		C114	C114.3	3	2							1	1		1			3.00	2.29	2.65
		C114	C114.4	3								1	1		1			3.00	2.29	2.65
C115	18ELE27	C115	C115.1			2	2				2	2	2		3	3	3	3.00	2.29	2.65
		C115	C115.2		2		2	2			2	2	2		3	3	3	3.00	2.29	2.65
		C115	C115.3			2	2	2			2	2	2		3	3	3	3.00	2.29	2.65
		C115	C115.4		2	2		2			2	2	2		3	3	3	3.00	2.29	2.65
		C115	C115.5			2		2			2	2	2		3	3	3	3.00	2.29	2.65
C116	18EGH28	C116	C116.1						1				2	2				2.95	2.82	2.89
		C116	C116.2						2				2	2				2.95	2.82	2.89
		C116	C116.3						2				2	3				2.95	2.82	2.89
		C116	C116.4						2				2	3				2.95	2.82	2.89
		C116	C116.5						2				2	3		3		2.95	2.82	2.89
C201	18MAT31	C201	C201.1	3	3										1			2.76	1.46	2.11
		C201	C201.2	3	2											1			2.75	1.46

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		C201	C201.3	3	3										1			<b>2.76</b>	1.46	2.11
		C201	C201.4	3	2										1			<b>2.39</b>	1.46	1.93
		C201	C201.5	3	2										1			<b>2.56</b>	1.46	2.01
C202	18EC32	C202	C202.1	3	2			2				1			2			<b>2.77</b>	0.73	1.75
		C202	C202.2	3	2			2				1			2			<b>2.77</b>	0.73	1.75
		C202	C202.3	3	2			2				1			2			<b>2.42</b>	0.73	1.58
		C202	C202.4	3	2			2				1			2			<b>2.13</b>	0.73	1.43
		C202	C202.5	3	2			2				1			2			<b>2.43</b>	0.73	1.58
C203	18EC33	C203	C203.1	2				2				2			2			<b>2.4</b>	1.11	1.76
		C203	C203.2	3	1			2				2			2	2		<b>2.7</b>	1.11	1.91
		C203	C203.3	3	2			2				2			2	2		<b>2.5</b>	1.11	1.81
		C203	C203.4	3	2			2				2			2	2		<b>2</b>	1.11	1.56
		C203	C203.5	2											2	2		<b>2.6</b>	1.11	1.86
C204	18EC34	C204	C204.1	3	2			1							2	3	1	<b>2.84</b>	1.62	2.23
		C204	C204.2	3	2	2		1							2	3	2	<b>2.81</b>	1.62	2.22
		C204	C204.3	3	2	1		1							2	3	1	<b>2.2</b>	1.62	1.91
		C204	C204.4	3	3	2						2	2		2	3	2	<b>1.86</b>	1.62	1.74
C205	18EC35	C205	C205.1	2								2				1		<b>2.8</b>	1.34	2.07
		C205	C205.2	2	2			1				2				1		<b>2.77</b>	1.34	2.06
		C205	C205.3	2				1								1		<b>2.17</b>	1.34	1.76
		C205	C205.4	2												1		<b>2.38</b>	1.34	1.86
		C205	C205.5	2	2							2				1		<b>2.76</b>	1.34	2.05


C206	18EC36	C206	C206.1	2	2						1			2		<b>2.8</b>	1.39	2.1
		C206	C206.2	2	2						1			2		<b>2.51</b>	1.39	1.95
		C206	C206.3	2	1						1			2		<b>2.78</b>	1.39	2.09
		C206	C206.4	2	1						1			2		<b>2.79</b>	1.39	2.09
		C206	C206.5	2	1						1		1	2		<b>2.78</b>	1.39	2.09
C207	18ECL37	C207	C207.1	3	2		1	1			2	1				<b>2.8</b>	2.78	2.79
		C207	C207.2	3	2		1	1			2	1		2		<b>2.81</b>	2.78	2.8
		C207	C207.3	3	2		2	3			1	1		1	2	<b>2.82</b>	2.78	2.8
C208	18ECL38	C208	C208.1	2	2					2	3	3		3	2	<b>2.81</b>	2.62	2.72
		C208	C208.2	2	1					2	3	3		3	2	<b>2.79</b>	2.62	2.71
		C208	C208.3	2	1			2		2	3	3		3	2	<b>2.77</b>	2.62	2.7
		C208	C208.4	2	1			3		2	3	3		3	2	<b>2.79</b>	2.62	2.71
		C208	C208.5	2	2			2		3		3		3	2	<b>2.79</b>	2.62	2.71
C209	18MAT41	C209	C209.1	3	1								1			<b>2.8</b>	1.36	2.08
		C209	C209.2	3	1								1			<b>2.79</b>	1.36	2.08
		C209	C209.3	3	3								3			<b>2.81</b>	1.36	2.09
		C209	C209.4	3	2								1			<b>2.82</b>	1.36	2.09
		C209	C209.5	3	3								3			<b>2.82</b>	1.36	2.09
C210	18EC42	C210	C210.1	3	2						1	1		1	2	<b>2.81</b>	1.36	2.09
		C210	C210.2	3	2						1	1		2		<b>2.8</b>	1.36	2.08
		C210	C210.3	3	1						1	1		2		<b>2.82</b>	1.36	2.09
		C210	C210.4	3	2			2			1	1		2	2	3	<b>2.81</b>	1.36

		C210	C210.5	3	2			2				1	1		2	2	3	<b>2.81</b>	1.36	2.09
C211	18EC43	C211	C211.1	3	2										3			<b>2.78</b>	1.36	2.07
		C211	C211.2	3	1										3			<b>2.81</b>	1.36	2.09
		C211	C211.3	3	1										3			<b>2.43</b>	1.36	1.9
		C211	C211.4	3	2										3			<b>2.46</b>	1.36	1.91
		C211	C211.5	3	2										3			<b>2.79</b>	1.36	2.08
		C212	C212.1	2	3											2			<b>2.79</b>	1.36
C212	18EC44	C212	C212.2	2	3										2			<b>2.79</b>	1.36	2.08
		C212	C212.3	3	3										3			<b>2.79</b>	1.36	2.08
		C212	C212.4	2	3										1			<b>2.78</b>	1.36	2.07
		C212	C212.5	2	3										1			<b>2.81</b>	1.36	2.09
		C213	C213.1	3	2										2	3			<b>2.83</b>	1.36
C213	18EC45	C213	C213.2	3	3	2								3	3	3		<b>2.81</b>	1.36	2.09
		C213	C213.3	3	3	2								3	3	3		<b>2.28</b>	1.36	1.82
		C213	C213.4		3	2								3	3	2		<b>2.879</b>	1.36	2.12
		C213	C213.4	2	2	3								3	3	3		<b>1.98</b>	1.36	1.67
		C214	C214.1	2	1								1			2			<b>2</b>	1.36
C214	18EC46	C214	C214.2	2	1							1			2			<b>2.8</b>	1.36	2.08
		C214	C214.3	2	1							1			2			<b>1.99</b>	1.36	1.68
		C214	C214.4	2	1							1			2			<b>1.92</b>	1.36	1.64
		C214	C214.4	2	1							1			2			<b>2.72</b>	1.36	2.04
		C215	C215.1	2	1			3								1			<b>2.8</b>	1.36

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		C215	C215.2	2	2	2		3		1		1	1		1	2	2	2.8	1.36	2.08	
		C215	C215.3	2	2	2		3		1		1	1		2	2	2	2.8	1.36	2.08	
C216	18ECL48	C216	C216.1	2	3	1						1			1		2	2.81	1.36	2.09	
		C216	C216.2	2	3	1							1			1		2	2.81	1.36	2.09
		C216	C216.3	2	3			3					1			1		2	2.41	1.36	1.89
		C216	C216.4							2	1	3				1			2.81	1.36	2.09
		C217	C217.1						3			2	2			3			3	1.36	2.18
C217	18CPC49	C217	C217.2					3		3	2	2			3			3	1.36	2.18	
		C217	C217.3					3			2	2			1			3	1.36	2.18	
		C301	C301.1	1								2	2			1			2.84	2.49	2.67
C301	18ES51	C301	C301.2	1											1			2.83	2.49	2.66	
		C301	C301.3	1											1			2.84	2.49	2.67	
		C301	C301.4	1											1			2.82	2.49	2.66	
		C302	C302.1	3	2											3			2.26	1.93	2.1
C302	18EC52	C302	C302.2	3	2										3			2.09	1.93	2.01	
		C302	C302.3	3	3										3	3		2.82	1.93	2.38	
		C302	C302.4	3	3										3	3		2.8	1.93	2.37	
		C302	C302.5	2											3			2.52	1.93	2.23	
		C303	C303.1	3	2											3			1.95	1.85	1.9
C303	18EC53	C303	C303.2	3	2										3			2.39	1.85	2.12	
		C303	C303.3	3	3			2							3			2.27	1.85	2.06	
		C303	C303.4	2											3			2.8	1.85	2.33	

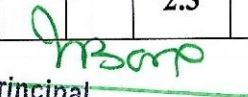
  
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C304	18EC54	C304	C304.1	3	3									2		2.57	2.24	2.41	
		C304	C304.2	2	3										2		1.74	2.24	1.99
		C304	C304.3	3	2										2		2.14	2.24	2.19
		C304	C304.4	3	3										2		2.02	2.24	2.13
C305	18EC55	C305	C305.1	2	1											1.72	1.77	1.75	
		C305	C305.2	2	1											2.26	1.77	2.02	
		C305	C305.3	2	1											2.07	1.77	1.92	
		C305	C305.4	2	1											2.19	1.77	1.98	
		C305	C305.5	2	1											2.76	1.77	2.27	
C306	18EC56	C306	C306.1	3	2									3		2.4	2.41	2.41	
		C306	C306.2	3	2									3		2.31	2.41	2.36	
		C306	C306.3	2	2									3		1.92	2.41	2.17	
		C306	C306.4	3	2									3		2.83	2.41	2.62	
		C306	C306.5	3		2		3						3		2.83	2.41	2.62	
C307	18ECL57	C307	C307.1	2	2		3	3				1		3		2.37	2.48	2.43	
		C307	C307.2	2	2		3	3				1		3		2.36	2.48	2.42	
		C307	C307.3	2	2		3	3				1		3		2.46	2.48	2.47	
		C307	C307.4	2	2		3	3				1		3		2.32	2.48	2.4	
C308	18ECL58	C308	C308.1	2				3				1		3		2.26	2.64	2.45	
		C308	C308.2	2				3				1		3		2.21	2.64	2.43	
		C308	C308.3			3		3				1		3		2.13	2.64	2.39	
		C308	C308.4		2			3				1		3		2.2	2.64	2.42	

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C309	18CIV59	C309	C309.1						2				2			2.92	2.91	2.92	
		C309	C309.2		2									2			2.52	2.91	2.72
		C309	C309.3											3			1.88	2.91	2.4
		C309	C309.4		2		1							2			1.51	2.91	2.21
C310	18EC61	C310	C310.1	2	1								2	1		1.41	1.74	1.58	
		C310	C310.2	2	2									2	2		2.25	1.74	2
		C310	C310.3	3	2									3	2		2.74	1.74	2.24
		C310	C310.4	2	1						2	2		2	2		2.52	1.74	2.13
		C310	C310.5	2	1						2	2		2	2		2.24	1.74	1.99
C311	18EC62	C311	C311.1	1		2							1	1		2.7	2.27	2.49	
		C311	C311.2	2		1							2		2	2.8	2.27	2.54	
		C311	C311.3	2							1	1		1	2		2.8	2.27	2.54
		C311	C311.4	1										1	2		2.8	2.27	2.54
		C311	C311.5	1	2									1	1		2.8	2.27	2.54
C312	18EC63	C312	C312.1	3	3	1									1	2.56	1.6	2.08	
		C312	C312.2	3	3	1									1	2.59	1.6	2.1	
		C312	C312.3	3	3	1									3	2.38	1.6	1.99	
		C312	C312.4	3	3	1									3	2.33	1.6	1.97	
		C312	C312.5	3	3	1						2			3	2.81	1.6	2.21	
C313	18EC646	C313	C313.1	2	1			1					1			2.43	1.59	2.01	
		C313	C313.2	2	1			1					1			2.36	1.59	1.98	
		C313	C313.3	2	1			1					1			2.5	1.59	2.05	

		C313	C313.4	2	1			1							1			2.81	1.59	2.2
		C313	C313.5	2	1			1							1			2.8	1.59	2.2
C314	18CS653	C314	C314.1	2												1		1.03	1.45	1.24
		C314	C314.2	2		1												2.1	1.45	1.78
		C314	C314.3	1	1											2		2.06	1.45	1.76
		C314	C314.4	1		1										1		2.08	1.45	1.77
		C314	C314.5	1	1	1												2.13	1.45	1.79
C315	18CS654	C315	C315.1	2														1.86	1.96	1.91
		C315	C315.2	2	1													2.64	1.96	2.3
		C315	C315.3	1	1													2.86	1.96	2.41
		C315	C315.4	1	1	1												2.85	1.96	2.41
		C315	C315.5	1	1													2.85	1.96	2.41
C316	18ECL66	C316	C316.1	2	0	0	0	2	0	0	0	0	0	0	0	2		2.1	2.56	2.33
		C316	C316.2	2	2	0	0	0	0	0	0	0	0	0	0	2		2.05	2.56	2.31
		C316	C316.3	2	2	0	0	2	0	0	0	0	0	0	0	2	2	2.01	2.56	2.29
		C316	C316.4	2	2	0	0	0	0	0	0	0	0	0	0	2		2.97	2.56	2.77
C317	18ECL67	C317	C317.1	2	2			2				2	1			2		2.61	2.74	2.68
		C317	C317.2	2	2							2	1			2		2.67	2.74	2.71
		C317	C317.3	2	2							2	1			2		2.66	2.74	2.7
		C317	C317.4	2	1			2				2	1			2		2.63	2.74	2.69
C318	18ECMP68	C318	C318.1		3		1											2.37	3	2.69
		C318	C318.2		2		2											2.3	3	2.65

  
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		C318	C318.3	3		3	2	3										2.31	3	2.66
		C318	C318.4				1	3	2	2						2		2.3	3	2.65
		C318	C318.5									2	3					2.31	3	2.66
C401	18EC71	C401	C401.1	2											2		2.84	2.16	2.5	
		C401	C401.2	2											2		2.56	2.16	2.36	
		C401	C401.3	2	1										2		2.84	2.16	2.5	
		C401	C401.4	2	1										2		2.3	2.16	2.23	
		C401	C401.5	2	1										2		2.84	2.16	2.5	
C402	18EC72	C402	C402.1	3											2		2.3	1.39	1.85	
		C402	C402.2	3											2		2.62	1.39	2.01	
		C402	C402.3	1	2	1									2		2.04	1.39	1.72	
		C402	C402.4	3											2		2.57	1.39	1.98	
		C402	C402.5	3											2		2.05	1.39	1.72	
C403	18EC733	C403	C403.1	3														2.5	2.15	2.33
		C403	C403.2	3	2							1			2		1.4	2.15	1.78	
		C403	C403.3	3	2							1			2		1.14	2.15	1.65	
		C403	C403.4	3	2							1			2		2	2.15	2.08	
C404	18EC744	C404	C404.1	2	3										2		2.86	2.98	2.92	
		C404	C404.2	2	2										2		2.86	2.98	2.92	
		C404	C404.3	2	1										2		2.25	2.98	2.62	
		C404	C404.4	2	2										2		2.16	2.98	2.57	
		C404	C404.5	2	1										2		2.87	2.98	2.93	

C406	18ECL76	C406	C406.1	3				1				1		1	2	<b>2.09</b>	2.43	2.26	
		C406	C406.2	3	2			3			1	2			1	2	<b>2.086</b>	2.43	2.26
		C406	C406.3	3	2			3			1	2			1	2	<b>2.082</b>	2.43	2.26
		C406	C406.4	3	2			3			1	2			1	2	<b>2.082</b>	2.43	2.26
		C406	C406.5	3	2			3			1	2			1	2	<b>2.08</b>	2.43	2.26
C407	18ECL77	C407	C407.1	2				2				2		2		<b>2.86</b>	2.98	2.92	
		C407	C407.2	2				2				2		2		<b>2.86</b>	2.98	2.92	
		C407	C407.3	2				2				2		2		<b>2.86</b>	2.98	2.92	
		C407	C407.4	2				2				2		2		<b>2.86</b>	2.98	2.92	
C408	18EC81	C408	C408.1	2				1					1			<b>2.82</b>	1.04	1.93	
		C408	C408.2	2									1			<b>2.43</b>	1.04	1.74	
		C408	C408.3	2									1			<b>2.6</b>	1.04	1.82	
		C408	C408.4	2									1			<b>2.5</b>	1.04	1.77	
C409	18EC823	C409	C409.1	2	1						1	3			2	1	<b>1.59</b>	2.9	2.25
		C409	C409.2	2	1										1	1	<b>2.06</b>	2.9	2.48
		C409	C409.3	2	1										1	1	<b>2.46</b>	2.9	2.68
		C409	C409.4	2							1	3			1		<b>2.22</b>	2.9	2.56
C410	18EC824	C410	C410.1	2	1									2		<b>2.37</b>	2.2	2.29	
		C410	C410.2	2	1									2		<b>2.88</b>	2.2	2.54	
		C410	C410.3	2	1									2		<b>2.88</b>	2.2	2.54	
		C410	C410.4	2	1									2		<b>2.87</b>	2.2	2.54	
		C410	C410.5	2	1									2		<b>2.88</b>	2.2	2.54	

C411	18ECP78/83	C411	C411.1	3	3		3				2			1			2.91	3	2.96
		C411	C411.2	3	3		3				2			1			2.91	3	2.96
		C411	C411.3	3	3	3		3			2			1		2	2.91	3	2.96
		C411	C411.4	3	3	3		3		3	2	3		1			2.85	3	2.93
C412	18ECS84	C412	C412.1						2		1	1			1		2.83	3	2.92
		C412	C412.2	1	1				-2		1	1		1			2.84	3	2.92
		C412	C412.3					1			1	1					2.83	3	2.92
C413	18ECI85	C413	C413.1	3		3	3	3							2	2	2.8	3	2.9
		C413	C413.2		3						2		2	2	2	2	2.8	3	2.9
		C413	C413.3									3					2.8	3	2.9



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