



武威职业技术学院

WUWEI OCCUPATIONAL COLLEGE



	- 5 -
2022	- 46 -
2022	- 76 -
2022	- 101 -
2022	- 132 -
2022	- 164 -
2022	- 192 -
2022	- 200 -
2022	- 209 -
2022	- 231 -





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(一) 培养目标

(二) 培养 格

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(一) 公共基

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1		1.  2.          1.  2.	3  54	=20%  +30%  +50%

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4		<p>1.</p> <p>2.</p> <p>3.</p>	<p>1</p> <p>48</p> <p>6</p>	<p>=20%</p> <p>+30%</p> <p>+50%</p>
5		<p>1.</p>	<p>2</p> <p>36</p>	<p>=20%</p> <p>+30%</p> <p>+50%</p>

		2. 3.		
6			2 36	=20%  +30%  +50%
7		:  1-2 ;  :  :  1-3 1-2	6 108	=20%  +30%  +50%
8			4 72	=20%  +30%

				+50%
9			4 148	=20% +30% +50%
10			1 24	=20% +30% +50%

11		<p>1.</p> <p>2.</p>	<p>4</p> <p>72</p>	<p>=20%</p> <p>+30%</p> <p>+50%</p>
12			<p>4</p> <p>72</p>	<p>=20%</p> <p>+30%</p> <p>+50%</p>



13			2 36	=20%  +30%  +50%
14			2 36	=20%  +30%  +50%

(二) 专业

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(三) 实 性教学环

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				30%	30%	40%	
1	25%	10%	1. 3% 2. 2% 3. 5%				
		5%	5%				
		10%	1. 5% 2. 5%				
2	40%	20%	1. 8% 2. 6% 3. 6%				
		20%	1. 10 2. 10				
3	35%	30%	1. 10% 2. 5% 3. 10%				
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		5%	5%				

9





1		1-4				1
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(一) 教学实 分

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	I						
	2						2
	16	18	18	18	18		88
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	1	1	1	1	1		5
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	1	1	1	1	1		5
	5	7	5	7	5		29
	25	27	25	27	25	20	149

(二) 学时、学分数



(二) 教学 施

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(三) 教学 源

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(四) 教学方法

(五) 学习 价

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(六) 理

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(一) 学分 求

(二) 业 格 书 求 ( 16)

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			60
			60

(三) 学分



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18	18	18	18	18	18
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1	3	54	36	18	3
2	2	36	24	12	2
3	1	48	48		
4	3	54	36	18	3
5	6	108	12	96	2 2 2
6	4	64	16	48	4
7	4	72	72		2 2
8	4	72	72		2 2
9	2	36	36		
10	2	36	16	20	2
11	2	36	12	24	2
12	2	36	36		2
13	4	148	36	112	2
14	1	24	16	8	1
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	41	844	488	356	13 14 2 4 2

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	4		2	36	30	6		2						
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	6		2	36	26	10			2					
	7		4	68	16	52	2	2						
	8		4	68	16	52	2	2						
			<b>21</b>	<b>360</b>	<b>228</b>	<b>132</b>	<b>11</b>	<b>8</b>	<b>2</b>					

**2.**

	1		*	2	36	28	8			2				
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			*	2	36	28	8				2			
			*	2	36	28	8					2		
			*	2	36	28	8						2	
2		*	6	108	24	84			2	2	2			
3		*	6	108	24	84			2	2	2			
4		*	8	144	36	108		2	2	2	2			
5		*	2	36	18	18					2			
6		*	2	36	26	10				2				
7		*	2	36	16	20	2							
		*	2	36	16	20		2						
		*	2	36	16	20			2					
		*	2	36	16	20				2				
8		*	2	36	18	18					2			
			<b>44</b>	<b>792</b>	<b>350</b>	<b>442</b>	<b>2</b>	<b>4</b>	<b>12</b>	<b>14</b>	<b>12</b>			

**3.**

	1	0 3	2	36	22	14				2				
	2		2	36	30	6					2			
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	4		1	18	6	12						1		
	5		1	18	6	12			1					
	6		1	18	12	6			1					

	7		2	36	6	30				2					
	8		2	36	6	30					2				
	9		2	36	18	18			2						
			<b>14</b>	<b>252</b>	<b>112</b>	<b>140</b>			<b>4</b>	<b>4</b>	<b>6</b>				
<b>4.</b>															
	1	3	6	72	6	66			2	2					
	2			36	30	6						2			
	3			36	10	26					2				
	4			36	36	0						2			
	5			36	6	30			2						
	6	3		4											
			<b>6</b>	<b>108</b>	<b>68</b>	<b>40</b>			<b>4</b>	<b>4</b>	<b>4</b>				
.															
	1		1	18		18									
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			<b>34</b>	<b>516</b>		<b>516</b>									
			<b>160</b>	<b>2872</b>	<b>1246</b>	<b>1626</b>	<b>26</b>	<b>26</b>	<b>24</b>	<b>26</b>	<b>24</b>				

**2022**

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(一) 培养目标

(二) 培养 格

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(一) 公共基

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		<p>8.</p> <p>18                      3                      9                      2                      4</p> <p>        36                      5                      18                      18</p> <p>        6                      18                      8                      18                      7</p> <p>                18                      3                      27                      9                      2                      4</p> <p>                        9</p> <p>1.</p> <p>2.</p> <p>4.</p> <p>5.</p>					
4			8	132	=20%	+30%	+50%
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11		1. 2. 3.	1 48 6	=20% +30% +50%
12		1.	2 36	=20% +30% +50%

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13			2 36	=20%  +30%  +50%
14		:  1-2 ;  :  ;  :  1-3 1-2	14 240	=20%  +30%  +50%
15			10 172	=20%  +30%  +50%

16			4 148	=20%  +30%  +50%
17			1 24	=20%  +30%  +50%
18		1.  2.	8 144	=20%  +30%  +50%

19			4 72	=20%  +30%  +50%
20		:	2 36	=20%  +30%  +50%

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(二) 专业

1			4 72	=20% +30% +50%
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3		1	14 252	=20%

		2		+30% +50%
4			8 144	=20% +30% +50%
5			4 72	=20% +30% +50%
6			8	

			144	=20% +30% +50%
7		1 2	6 108	=20% +30% +50%
8		1 2	6 108	=20% +30% +50%



9		<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>1 2</p>	<p>8</p> <p>144</p>	<p>=20%</p> <p>+30%</p> <p>+50%</p>
10		,	<p>4</p> <p>72</p>	<p>=20%</p> <p>+30%</p> <p>+50%</p>
11		<p>1</p> <p>2</p>	<p>4</p> <p>72</p>	

		3 4		=20% +30% +50%
12	1 2		8 144	=20% +30% +50%
13		1 2 3	4 72	=20% +30% +50%

14			4 72	=20% +30% +50%

(三) 实 教学环

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	26	1842	988	854	40.11%	100	39.22%
	21	2016	1036	980	43.90%	108	42.35%
	6	252	122	94	5.49%	12	4.71%
	6	482	30	488	10.50%	35	13.73%
	59	4592	2176	2416	100.00%	255	100.00%

(一) 师 伍

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8                      15                      5                      20                      4  
40%                      25:1                      20%                      80%

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(二) 教学 施

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(三) 教学 源

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(五) 教学 价

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(六) 理

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The image shows a large grid table with 13 columns and 40 rows. The grid is divided into four main sections by horizontal shaded rows. The central column (the 7th column from the left) is shaded light blue. The horizontal shaded rows are located at rows 3, 13, 23, and 33. The table is mostly empty, with a few small squares filled in: a small square in the 13th row, 1st column; a small square in the 13th row, 2nd column; a small square in the 13th row, 3rd column; a small square in the 13th row, 4th column; a small square in the 13th row, 5th column; a small square in the 13th row, 6th column; a small square in the 13th row, 7th column; a small square in the 13th row, 8th column; a small square in the 13th row, 9th column; a small square in the 13th row, 10th column; a small square in the 13th row, 11th column; a small square in the 13th row, 12th column; a small square in the 13th row, 13th column; a small square in the 13th row, 14th column; a small square in the 13th row, 15th column; a small square in the 13th row, 16th column; a small square in the 13th row, 17th column; a small square in the 13th row, 18th column; a small square in the 13th row, 19th column; a small square in the 13th row, 20th column; a small square in the 13th row, 21st column; a small square in the 13th row, 22nd column; a small square in the 13th row, 23rd column; a small square in the 13th row, 24th column; a small square in the 13th row, 25th column; a small square in the 13th row, 26th column; a small square in the 13th row, 27th column; a small square in the 13th row, 28th column; a small square in the 13th row, 29th column; a small square in the 13th row, 30th column; a small square in the 13th row, 31st column; a small square in the 13th row, 32nd column; a small square in the 13th row, 33rd column; a small square in the 13th row, 34th column; a small square in the 13th row, 35th column; a small square in the 13th row, 36th column; a small square in the 13th row, 37th column; a small square in the 13th row, 38th column; a small square in the 13th row, 39th column; a small square in the 13th row, 40th column.



**2022**

				2019 4
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		(	2019 61 )	
2019				
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				( 2019 13 )
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740201

540202

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			4-03-01-01		
			4-03-01-02		
			4-03-01-00		
			4-03-04-01		

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1. 公共

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2		,	8 132	=20%  +30%  +50%
3		,	8 132	=20%  +30%  +50%
4		1.  2.	3 54	=20%  +30%  +50%

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5		1. 2. 3.  1. 2. 3.	2 36	=20%  +30%  +50%
6			3 54	=20%  +30%  +50%

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15		1.  2.	2 36	=20%  +30%  +50%
16			2 36	=20%  +30%  +50%

17		:	2 36	=20%  +30%  +50%
18		:	2 36	=20%  +30%  +50%

2. 专业



1			2 36	=20%  +30% +50%
2			4 64	=20%  +30% +50%
3			2 36	=20%  +30% +50%
4			4 72	=20%  +30% +50%

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12			4 72	=20% +30% +50%
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(三) 实践教学环

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(一) 思政教学整体思

(二) 思政 人元

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261

	28	1794	974	820	38.38%	98	37.55%
	35	2138	1052	1086	45.74%	120	45.98%
	6	742	0	742	15.88%	43	16.47%
	69	4674	2026	2648	100%	261	100%

2022

(一) 师 伍

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(二) 教学 施

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(三) 教学 源

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1		2	32	12	20					2							
2		2	36	24	12												
3		2	36	18	18												
1		4	64	48	16					4							
2		4	64	48	16					4							
3		2	36	24	12	2											
4		2	36	18	18						2						
5		2	36	18	18					2							
6		2	36	24	12		2										
7		4	72	16	56								4				
8		4	72	40	32								4				
9		4	72	56	16				4								
1		2	36	18	18								2				
2		4	72	24	48				4								
3		2	36	18	18								2				
4		4	72	24	48			4									
		<b>40</b>	<b>704</b>	<b>376</b>	<b>328</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>12</b>				
1		4	72	36	36					4							
2		4	72	48	24		4										
3		4	72	16	56					4							
4		4	72	16	56					4							
5		4	72	16	56			4									
6		4	72	16	56						4						
7		2	36	18	18								2				
8		4	72	18	54							4					
9		4	72	36	36		4										
10		4	72	48	24			4									
11		4	72	48	24	4											
1		4	72	54	18					4							

2	6	108	28	80								6
3	4	72	54	18				4				
	<b>56</b>	<b>1008</b>	<b>452</b>	<b>556</b>	<b>4</b>	<b>8</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>12</b>	<b>14</b>	<b>2</b>
1	4	72	18	54								4
2	4	72	16	56							4	
3	4	72	54	18	4							
4	4	72	54	18								4

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2022 9 16

**2022**

2021 35  
2019 13  
2019 61 2019  
2021  
2022

2022

1. 2021
- 2.
3. 1+
- 4.

440301 2021

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5 44	5 4403	5 48 47 47	5 2-02-18 4-04-05- 04		

(一) 培养目标

BI

5

(二) 培养 格

1.

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BI

1 2 5



(一) 公共基

1			2 36	=20% +30% +50%
2			2 36	=20% +30% +50%
3			2 36	=20% +30% +50%
4			2 36 1	=20% +30% +50%
5			12 216	=20% +30% +50%
6			8 144	=20% +30% +50%
7			8 144	=20% +30% +50%
8			6 108	=20% +30% +50%

9			8 144	=20% +30% +50%
10			2 36	=20% +30% +50%
11			4 72	=20% +30% +50%
12			5 90	=20% +30% +50%
13			2 36	=20% +30% +50%
14		1.  2.	3 54 5	=20% +30% +50%

		<ol style="list-style-type: none"> <li>1.</li> <li>2.</li> </ol>		
15		<ol style="list-style-type: none"> <li>1.</li> <li>2.</li> <li>3.</li> </ol> <ol style="list-style-type: none"> <li>1.</li> <li>2.</li> <li>3.</li> </ol>	2 36 5	=20% +30% +50%
16			1 48 6	=20% +30% +50%

		<p>1.</p> <p>2.</p> <p>3.</p>		
17			<p>3</p> <p>54</p> <p>6</p>	<p>=20%</p> <p>+30%</p> <p>+50%</p>
18		<p>:</p> <p>1-2 ;</p> <p>:</p> <p>:</p> <p>1-3</p> <p>1-2</p>	<p>6</p> <p>108</p> <p>5 6</p> <p>7</p>	<p>=20%</p> <p>+30%</p> <p>+50%</p>
19			4	

	(		72 5	=20% +30% +50%
20			2 36 5 6	=20% +30% +50%
21		1.  2.	4 72 5 6	=20% +30% +50%

:

2

22

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		1. 2. 3.	9	+30% +50%
25			2 36 5	=20% +30% +50%
26			4 148 5	=20% +30% +50%





专业

1.

1	5		4 72	=20% +30% +50%
2	5		4 72	=20% +30% +50%
3	CAD		4 72	: 40% 40% 20%
4			2 36	=20% +30% +50%
5		5	6 108	=20% +30% +50%

22G101

6

11		5	4 72	=20% +30% +50%
12			4 72	=20% +30% +50%
13		1+	4 72	=20% +30% +50%
14			3 54	=20% +30% +50%

15			4 72	=20% +30% +50%
16	CAD	CAD A CAD CAD A CAD	4 72 A	: 40% 30% 1+ 30%
17	BI	E I BI C	4 72	: 40% 30% BI 1+ BI 30%
18		22G101 5 5	2 36	=20% +30% +50%

2.

1		<p style="text-align: center;">5 1+</p> <p style="text-align: center;">1+</p>	<p style="text-align: center;">4 72</p>	<p style="text-align: center;">=20%</p> <p style="text-align: center;">+30%</p> <p style="text-align: center;">+50%</p>
2		<p style="text-align: center;">1+</p> <p style="text-align: center;">5</p> <p style="text-align: center;">5      5</p> <p style="text-align: center;">5      5</p> <p style="text-align: center;">5</p> <p style="text-align: center;">1+</p>	<p style="text-align: center;">4 72</p>	<p style="text-align: center;">=20%</p> <p style="text-align: center;">+30%</p> <p style="text-align: center;">+50%</p>
3		<p style="text-align: center;">5      5</p> <p style="text-align: center;">5</p> <p style="text-align: center;">5</p> <p style="text-align: center;">5</p> <p style="text-align: center;">5</p> <p style="text-align: center;">5</p> <p style="text-align: center;">5</p>	<p style="text-align: center;">4 72</p>	<p style="text-align: center;">=20%</p> <p style="text-align: center;">+30%</p> <p style="text-align: center;">+50%</p>



				+30% +50%
8			4 72	=20% +30% +50%

3.

1		FIDIC	4 72	=20% +30% +50%

2		$1 + \left( \frac{\text{BI}}{5} \right)^5$	4 72	=20% +30% +50%
3			4 72	=20% +30% +50%
4			2 36	=20% +30% +50%
5			4 72	=20% +30% +50%
6			2 36	=20%



				+30% +50%
7			4 72	=20% +30% +50%
		9		
8	BIM	BI BI BI	4 72	: 40% 30% BI 1+ BI 30%

4.

1			1 18	=100%
2			2 36	=100%
3			3 48	=100%
4		3 2	2 36	=100%



2

1

1

/	26/18	27/18	28/18	28/18	26/18	23/18	25/18	27/18	24/18	*/30
	2	2	2	2	2	2	2	2	2	
	2				2					
/										*/30
						1				
	20	20	20	20	20	20	20	20	20	30

		1812	1328	3140	57.70	42.30
		216	0	216	100.00	0
		550	540	1090	50.46	49.54
		36	36	72	50	50
		396	216	612	64.70	35.30
		240	120	360	66.67	33.33
		0	624	624	0	100
		3250	2864	6114	53.16	46.84

		1		540/*/30	10
		2		72/*/*	9
		3		36/*/*	9
		4		24/24/1	6

(一) 师 伍

1.

9 15 5 12 3 7

15:1

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1		
2		CAD
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4		

(三) 教学 源

1.

2.

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3.

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4

(四) 教学方法

+

(五) 教学 价

(六) 理

1.

2.

3.

(七) 校企合作

- 1.
- 2.
- 2.
- 4.

1.	1 2	2022
2.	3 5	2022








1. 1+					4		4		CAD	4
1+		BI			BI	4	1+		BI	
		BI		4						
2.										
						8	6	4		
	12	10	8	.						
3.										
4.					A	B				
5.										
		2				6				

2022. 8. 10

**2022**

2021 35  
2019 13  
2019 61  
2021  
2019  
2022

1. 2021  
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3. 1+  
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5.  
10%

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2. 2022 4 -5

3. 2022 5 -6

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3.

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(12)

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/

1			2 32	=20%  +30% +50%
2			2 32	=20%  +30% +50%
3			2 32	=20%  +30% +50%
4			2 32	=20%  +30% +50%
5			10 168	    =20%



				+30% +50%
6			6 136	=20% +30% +50%
7			6 136	=20% +30% +50%
8			10 168	=20% +30% +50%
9			8 140	=20% +30% +50%
10			2 32	=20% +30% +50%
11			2 32	=20% +30% +50%

12			4 148	=20% +30% +50%
13			2 32	=20% +30% +50%
14		1.  2.	3 54	=20% +30% +50%

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17		1. 2. 3.	1 48 6	=20% +30% +50%
18		1. 2. 3.	2 36	=20% +30% +50%

19			2 36	=20%  +30% +50%
20		1. 2. 3. 4.  :  1. 2. 3.  1. 2.	4 72	=20%  +30% +50%
21		:  1-2  :  :  1-3	:  6 108	=20%  +30% +50%

		1-2		
22			4 72	=20%  +30% +50%
23			4 148	=20%  +30% +50%
24			1 24	=20%  +30%

				+50%
25		1.  2.	8 144	=20%  +30% +50%
26			4 72	=20%  +30% +50%

27		:  :	2 36 6	=20%  +30% +50%
28			2 36	=20%  +30% +50%



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64 =20%  
+30%  
+50%

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72 =20%  
+30%  
+50%

3

4  
72 =20%  
+30%  
+50%

4

			72	=20% +30% +50%
6			4 72	=20% +30% +50%
7			4 72	=20% +30% +50%
8			4 72	=20% +30% +50%

9			4 72	=20% +30% +50%
10			2 36	=20% +30% +50%

2.

1			6 108	=20% +30% +50%
2			4 72	=20% +30% +50%

3		AB	4 72	=20% +30% +50%
4			6 108	=20% +30% +50%
5			6 108	=20% +30% +50%
6			4 72	=20%

				+30% +50%
7			4 72	=20% +30% +50%
8		AB AB	4 72	=20% +30% +50%
9			4 72	=20% +30% +50%

10			2 36	=20% +30% +50%
11			4 72	=20% +30% +50%
12		AB A  A E	4 72  AB EBD ED	=20% +30% +50%

3.

1			4 72	=20%  +30%  +50%
2			2 36	=20%  +30%  +50%
3			4 72	=20%  +30%  +50%
4			4 72	=20%  +30%  +50%

5			4 72	=20%  +30%  +50%

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1		4	1 18	
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2022. 8. 20

**2022**




(一) 培养目标

(二) 培养 格

8

(一) 公共基

			2	36

2  
36

2  
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2  
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12

216

1 2

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144

1 2

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144

1 2

4

72



			1	
			8 144 1	
			4 72 1	
			2 36 1	
			4 148 1	
			1	

15			1	
16				

17			2	
18			5	

19			5	
20			1 2	
21			1 2 3	

22	2		1	
23	2		1	
24				



27			6	
28			2	

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(二) 专业 ( )



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6				
7			LC	
8				

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10				
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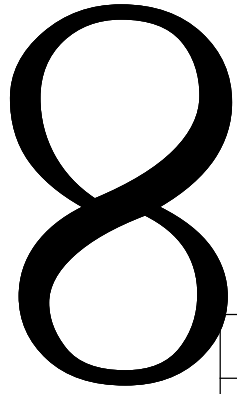
12				
13				

**3.**



(三) 点

(四) 学分 与 换



	1	2	3	4	1	2	3	4	5	6
	18	18	18	18	16	18	18	18	18	18
	1	1	1	1	1	1	1	1	1	1
	2				2					
									1	
	1	1	1	1	1	1	1	1		1
/	5	7	5	7	5	7	5	7	5	7
	25	27	25	27	25	27	25	27	25	27

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(二) 教学 施

(三) 教学 源

(四) 教学方法

: :

(五) 教学 价

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(六) 理

(七) 校企合作

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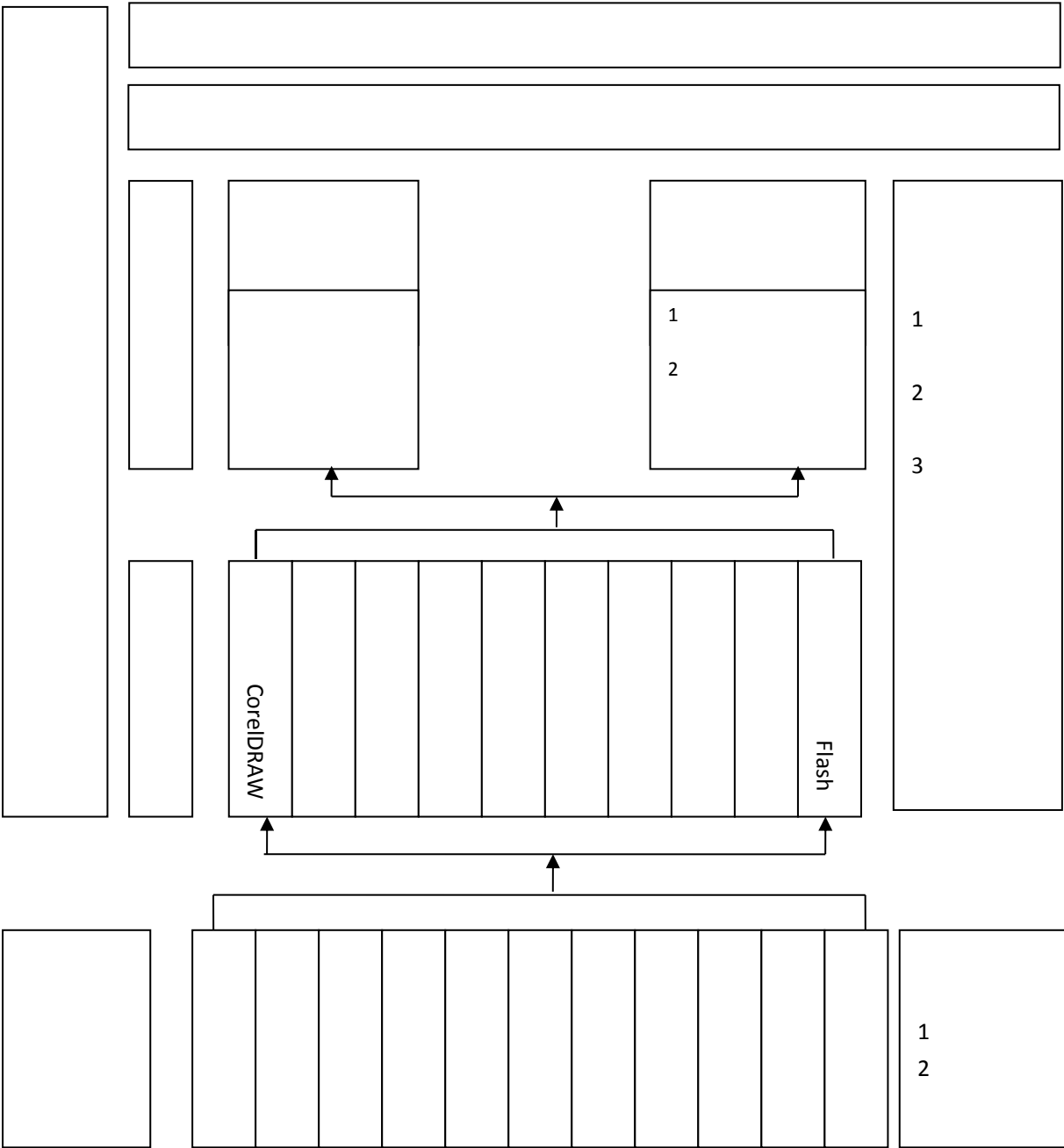
1.

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	I	I , C D A AI
/		
/		
		D F DI +C C
		, , , , CAD C
		,
		C A CAD
CAD		CAD H H AI 3D A

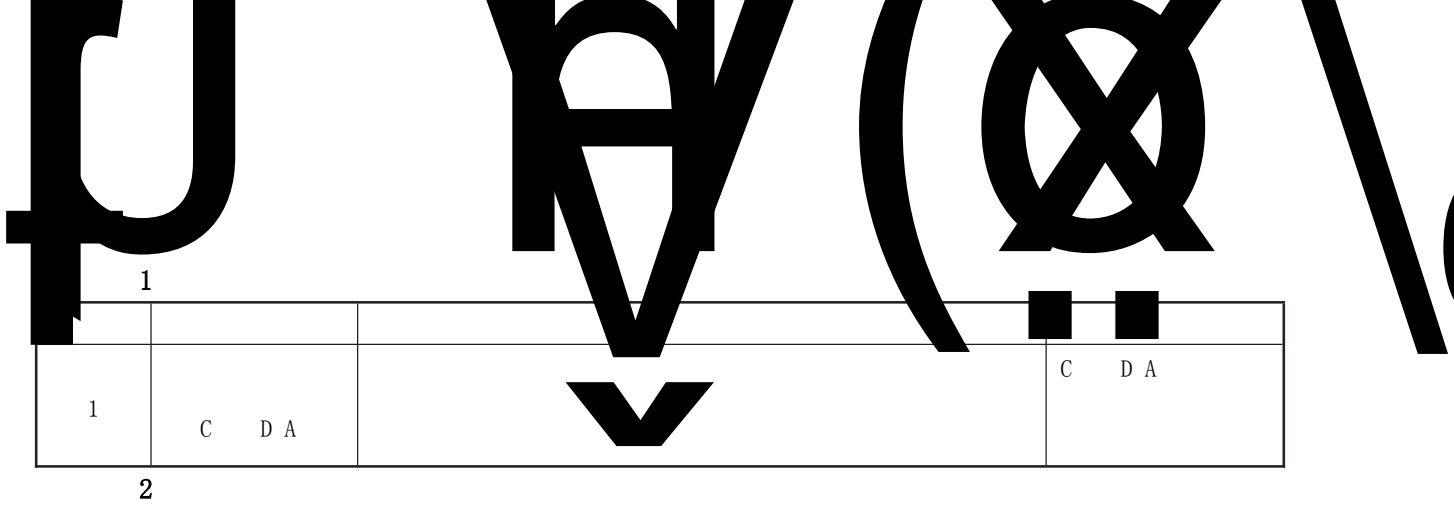


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4		I	4( )
5			
6		I	I C D A
7	A CAD	CAD	A CAD 2006
8			
9			
10	(FLASH)		FlashCS4



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		1	2	3	4	5	6
2	36	2					
2	36		2				
2	36		2				
2	36		2				
12	216	4	4	4			
8	144	4	2	2			
8	144	2	2	2	2		
8	144	4	4				

26.7% 26.7% 14 5 33.3% 13.3% 4  
 6 8 6 4 2  
 25% 75%  
 1 3000  
 2

12

1  
 30% 50% (60 ) 20% (  
 60 90-100 80-89 70-79 60-69  
 2  
 15% 15% 70%  
 60% 40%

182

**2022**



710204

3

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(一)、业(岗位) 向

1.

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D

(二)、业 格

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A

(一)、培养目标

,

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(二)、培养 格

1.



## (一)、公共基

1			36
2			36
3			36
4			36
5			216
6			216
7			144
8			144
9			144
10			36
11			36

## (二)、专业

1			36

2			36
3			36
4			144
		I	
5		H L	72
6		I	72
7			72
8			108

1			72
2			72
3			108

5

1668                      159                      2748                      1080                      39.3%  
60.7%

(一)、师 伍

I

2016                      2019                      85%

		14		13.3%	4
	26.7%		5		
26.7%	6			33.3%	4
		8	6		75%
	25%				2

(二)、教学 施

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(三)、教学 源

12

(四)、教学方法

(五)、教学 价

1.

30% 50% (60 ) ( )  
20%  
90-100 80-89 70-79 60-69  
60

2.

15% 15% 70%  
60% 40%

(六)、 理

1.

2.

159

附录：

				1	2	3	4	5	6
		2	36		2				
		2	36				2		
		2	36	2					
		2	36			2			
		12	216	4	4	2	2		
		12	216	4	4	2	2		
		8	144	2	2	2	2		
		8	144	4	4				
		8	144	2	2	2	2		
		2	36	2					
		2	36		2				
		60	1080	20	20	10	10		
		2	36		2				
		2	36	2					
		8	144	4	4				
		2	36	2					
		6	72			4			
		4	72			4			
		4	72			4			
		6	108				6		
		32	576	8	6	12	6		
		4	72			4			
		4	72				4		
		6	108				6		
		14	252	0	0	4	10		
			15	240					√
			38	600					√
		99	1668	8	6	16	16		
		159	2748	28	26	26	26		





2021

2019 13

2019 61

2021

2019-2021

2021

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41	4101	A C13 C14 74 C133  C151 C144			

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<b>1</b>		1.  2.    1.  2.	3  54	=20%  +30% +50%
<b>2</b>		1.  2.  3.    1.  2.  3.	2  36	=20%  +30% +50%
<b>3</b>			3	

			54	=20%  +30% +50%
<b>4</b>		1.  2.  3.	1  48  6	=20%  +30% +50%
<b>5</b>		1.	2  36  4	=20%  +30% +50%

		2. 3.		
<b>6</b>			2 36 5	=20% +30% +50%
<b>7</b>		1. 2. 3. 4. : 1. 2. 3.  1. 2.	4 72 4	=20% +30% +50%
<b>8</b>		:  :  :  :	1-2 6 108	=20% +30% +50%



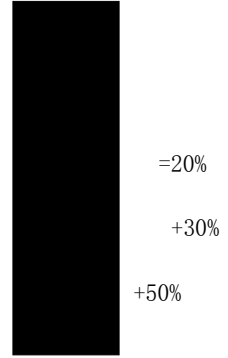
		1-2	1-3	
<b>9</b>				6 108 =20% +30% +50%
<b>10</b>				4 148 =20% +30% +50%
<b>11</b>				1 24 =20% +30% +50%

<b>12</b>		<p>1.</p> <p>2.</p>	<p>8</p> <p>144</p>	<p>=20%</p> <p>+30%</p> <p>+50%</p>
<b>13</b>			<p>4</p> <p>72</p> <p>2</p>	<p>=20%</p> <p>+30%</p> <p>+50%</p>
<b>14</b>		:	<p>2</p> <p>36</p>	<p>=20%</p>

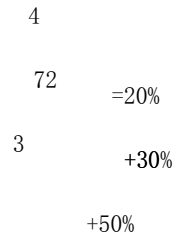
		:		+30% +50%
15			4 72 1	=20% +30% +50%
16			2 36 5	=20% +30% +50%
17			4 72 3	=20% +30% +50%

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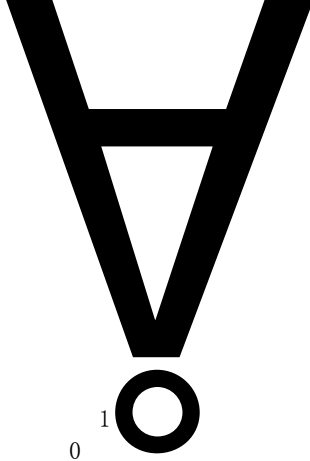


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3





4  
- <sup>TM</sup>, 2^P @  
72 =20%  
ú  
4 +30%  
+50%

1  
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1492

704

2196

67.94%

32.06%

72

	1	2	3	4	5	6	7	8	9	10
	2	/	/	/	2	/	/	/	/	/
	18	18	18	18	16	18	18	18	18	/
	1	1	1	1	1	1	1	1	1	/
	1	1	1	1	1	1	1	1	1	/
/	5	7	5	7	5	7	5	7	5	7
	/	/	/	/	/	/	/	/	/	15
	/	/	/	/	/	/	/	/	/	



1		1. 2. 3.	40
2		1. 2. 3. 4.	40
3			40
4		1. 2. 3. 4. 5. 6. 7.	40

3.

5

	20	1. 2. 3. ( ) 4. 5. 6. 7. 8. 9. 10. ( ) 11. 12. 13. 14. 15. ( ) 16. 17. 18. 19. 20.	30
	2		20



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3.  
4. 155 2  
5. 4 4 2 2  
2 4 2 2 2  
6. 8 6 4  
12 10 8  
7. AB  
8. 2019

1		3	54	36	18	3													
2		2	36	36	0	2													
3		2	36	36	0			2											
4		2	36	36	0				2										
5		2	36	36	0				2										
6	I	6	108	108	0	4	2												
7	I	4	72	72	0	2	2												
8	I	4	72	72	0	2	2												
9		4	72	72	0		2	2											
10		8	144	44	100	2	2	2	2										
11		2	36	18	18	2													
12		6	108	108	0			4	2										
13		6	108	108	0			4	2										
14		4	72	72	0			2	2										
15	1	2	36	18	18	2													
16		4	72	36	36	2	2												
17		3	54	32	22					3									
18		4	72	54	18						4								
19		1	50	50	0														
20		6	108	16	92					2	2	2							
21	2	4	72	36	36					4									
22		4	72	72	0					4									
23		8	144	144	0						4	4							
24		2	36	0	36														
25		2	36	18	18														
26		2	36	18	18														
27		4	148	36	112					2									
28		4	36	36	0					4									
29		2	36	0	36														

	30		6	108	54	54	2	4												
	31		6	108	54	54	4	2												
			<b>119</b>	<b>2214</b>	<b>1528</b>	<b>686</b>	<b>27</b>	<b>18</b>	<b>16</b>	<b>12</b>	<b>19</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
4	7	1	2	36	18	18						2								
		2	2	36	36	0		2												
		3	2	36	36	0					4									
		4	2	36	36	0								2						
	2	5	2	36	36	0							2							
		6	2	36	36	0			2											
		7	2	36	36	0									2					
		8	2	36	18	18											2			
			<b>8</b>	<b>144</b>	<b>72</b>	<b>72</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2</b>					
<b>1.</b>																				
1	2	1	4	72	36	36		4												
		2	4	72	36	36		4												
		3	4	72	36	36				4										
		4	4	72	36	36			4											
		5	4	72	36	36				4										
		6	4	72	36	36				4										
		7	4	72	36	36			4											
		8	4	72	36	36				4										
		9	4	72	36	36					4									
		10	4	72	36	36						4								
		11	4	72	36	36							4							
		12	4	72	36	36							4							
		13	4	72	36	36						4								
		14	4	72	36	36												4		
			<b>56</b>	<b>1008</b>	<b>504</b>	<b>504</b>	<b>8</b>	<b>8</b>	<b>16</b>	<b>4</b>	<b>8</b>	<b>8</b>		<b>4</b>						
1	2	1	2	36	18	18								2						
		2	2	36	18	18										2				
		3	2	36	18	18							2							
		4	2	36	18	18											2			
		5	2	36	18	18			2											

10	6		2	36	18	18								2						
			<b>10</b>	<b>180</b>	<b>90</b>	<b>90</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>4</b>					
<b>2.</b>																				
	1		4	72	36	36								4						
	2		4	72	36	36								4						
	3		4	72	36	36									4					
	4		4	72	36	36							4							
	5		4	72	36	36								4						
	6		4	72	36	36								4						
			<b>24</b>	<b>432</b>	<b>216</b>	<b>216</b>							<b>4</b>	<b>16</b>	<b>4</b>					
5	4	1	2	36	18	18									2					
		2	2	36	18	18									2					
		3	2	36	18	18										2				
	8	4	2	36	18	18							2							
		5	2	36	18	18						2								
			<b>8</b>	<b>144</b>	<b>72</b>	<b>72</b>							<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>				
<b>3.</b>																				
	1		2	30	0	30														
	2		1	18	0	18														
	3		2	30	0	30														
	4		30	540	0	540														
	5		2	36	0	36									2					
2	1	1	1	18	0	18														
	1	2	1	18	0	18														
			<b>38</b>	<b>672</b>	<b>0</b>	<b>672</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>			
<b>4.</b>																				
1			2																	
			<b>268</b>	<b>4848</b>	<b>2518</b>	<b>2330</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>27</b>	<b>22</b>	<b>22</b>	<b>24</b>	<b>18</b>	<b>0</b>				

**2022**

2012)4 )

( 2019)4 )  
2019)13  
2019 61



630301

430301

( 2 3 )

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43	4303	44	2-02-15-01	1. 2. 3.	1. 2.

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- 5
- 6

$$6. \quad | \quad (210 \quad 12 \quad ) \\ \quad \quad \quad 4 \quad ,$$

|

$$7. \quad | \quad (210 \quad 12 \quad ) \\ \quad \quad \quad 4 \quad \quad \quad |$$

$$8. \quad (72 \quad 4 \quad ) \\ \quad \quad \quad 2$$

$$9. \quad (140 \quad 8 \quad )$$

$$10. \quad (32 \quad 2 \quad )$$

11. (72 4 )

12. (48 3 )

13. 72 4

14. 16 1

15. 104 6

1 2

16. 72 4

17. 36 2

18. 36 2

19. 72 4

20. 64 4

21. 148 4

22. 36 2

23. 72 4

24. 64 4

25.

4

1.

1                                    96            6

2                                    72            4

3                                    72            4

PLC

4            C                    72            4

MCS-51

MCS-51

MCS-51

5                    64            4

/

6                                    72            4

7                                    72            4

PN

8                    CAD   64            4

AutoCAD

9 C

AutoCAD

72 4

C

10

72 4

51

11

PLC 72 4

PLC

2.

1

72 4

PN

2

72 4

3

36 2

4

36 2

5

72 4

,

MCGS

6

72 4



3.

1                    72            4

2                                    72            4

3                    72            4

4    72            4

9 72 4

10 72 4

11 72 4

4.

1 72 4

PLC DSP

CAD

2 36 2

3 72 4

4 36 2

1.

1 30 ,2

1+X

2 16 1

3 30 ,2

1+X

4 540 30

5 36 2

2.

1 18 1

2 18 1

PCB

2

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1

					%	%
		1634	454	2088	78.3%	21.7%
		90	18	108	83.3%	16.7%
		372	372	744	50%	50%
		90	90	180	50%	50%
		432	432	864	50%	50%
		54	54	108	50%	50%
		0	532	532	0	100%
		0	18	18	0	100%
		<b>2672</b>	<b>1970</b>	<b>4642</b>	<b>57.6%</b>	<b>42.4%</b>

	1	2	3	4	5	6	7	8	9	10
	2	/	/	/	2	/	/	/	/	/
	18	18	18	18	16	18	18	18	18	/
	1	1	1	1	1	1	1	1	1	/
	1	1	1	1	1	1	1	1	1	/
	/	/	/	/	/	/	/	/	/	24
	/	/	/	/	/	/	/	/	/	1
	20	20	20	20	20	20	20	20	20	25

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25:1

60%

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Wife

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3 PLC  
PLC

PLC

PLC

PLC

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CAD

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5.

3

1			B	5-9
2				1-9
3				1-9
4			/	1-9
5			/	1-9

1-3

1

4-5

1



						18	18	18	18	16	18	18	18	18	18	18
1		2	36	36	0	2										
2		2	36	36	0		2									
3		2	36	36	0			2								
4		2	36	36	0				2							
5	I	6	108	108	0	3	3									
6	I	6	108	108	0	3	3									
7	I	6	108	108	0	3	3									
8		4	72	72	0		2	2								
9		8	140	40	100	2	2	2	2							
10		2	36	18	18	2										
11		6	108	108	0			4	2							
12		6	108	108	0			4	2							
13		6	108	108	0			4	2							
14		4	72	36	36		2	2								
15		3	54	36	18					3						
16		2	36	24	12					2						
178		1	48	48	0									1		
19		3	54	36	18					3						
20		6	108	12	96				2	2	2					
21		4	72	36	36				4							
22		4	72	72	0								4			
23		8	144	144	0				4	4						
24		2	36	36	0									2		
25		2	36	36	0						2					
26		2	36	36	0									2		
27		2	36	36	0						2					
28		4	148	36	112											
29		1	24	16	8									1		
30		4	72	72	0				4							

							18	18	18	18	16	18	18	18	18	18	18			
4	2	1	2	36	18	18	2													
		2	2	36	18	18		2												
		3	2	36	18	18	2													
		4	1	18	18	0									1					
		5	1	18	18	0									1					
		6	1	18	18	0									1					
		7	1	18	18	0							1							
		8	1	18	18	0							1							
		9	1	18	18	0							1							
			<b>116</b>	<b>2196</b>	<b>1724</b>	<b>472</b>	<b>17</b>	<b>17</b>	<b>20</b>	<b>10</b>	<b>19</b>	<b>9</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>0</b>				
<b>1.</b>																				
10	1	1	6	96	48	48	6													
		2	4	72	36	36		4												
		3	4	72	36	36			4											
		4	C	4	72	36	36		4											
		5		4	72	36	36				4									
		6		4	72	36	36					4								
		7		4	72	36	36						4							
		8	CAD	4	72	36	36				4									
		9	C	4	72	36	36						4							
		10		4	72	36	36							4						
10	2	1	4	72	36	36				4										
		2	4	72	36	36				4										
		3	2	36	18	18								2						
		4	2	36	18	18								2						
		5	4	72	36	36									4					
		6	4	72	36	36										4				
			<b>52</b>	<b>924</b>	<b>462</b>	<b>462</b>	<b>6</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>2</b>	<b>4</b>	<b>0</b>			
<b>2.</b>																				
	1	1	4	72	36	36	4													
		2	4	72	36	36				4										
		3	4	72	36	36					4									

	4		4	72	36	36			4																		
	5		4	72	36	36									4												
	6		4	72	36	36									4												
	7		4	72	36	36							4														
	8		4	72	36	36									4												
	9		4	72	36	36									4												
	10		4	72	36	36											4										
4 2	1		4	72	36	36							4														
	2		2	36	18	18										2											
	3		4	72	36	36							4														
	4		2	36	18	18										2											
6	1	LC	4	72	36	36						4															
	2		4	72	36	36										4											
			<b>54</b>	<b>972</b>	<b>486</b>	<b>486</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>16</b>	<b>10</b>	<b>0</b>											
<b>3.</b>																											
	1		1	18	0	18																					
	2		2	40	0	40																					
	3		2	36	0	36																					
	4		24	384	0	384																					
	5		2	36	0	36																					
	6		1	18	0	18																					
1	1		1	18	0	18																					
	2		1	18	0	18																					
			<b>33</b>	<b>550</b>	<b>0</b>	<b>550</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>							
			<b>255</b>	<b>4642</b>	<b>2672</b>	<b>1970</b>	<b>27</b>	<b>25</b>	<b>28</b>	<b>22</b>	<b>27</b>	<b>21</b>	<b>24</b>	<b>24</b>	<b>20</b>	<b>0</b>											