

2020

2020.04.13~04.19

1. 4 16

49

2. 4 17

2020

3.

2020

4 19 165

48.36% 666

90.74 4 25 23:59:59

1. 2020.04.13-04.19

4 19 21 1903 3647

1391

4049193

1

1665 83.54%

338

17.76%

1

2.17-4.19

1		103	152	187	156317	27
2		78	106	164	159293	22
3		63	50	123	133743	17
4		68	84	109	76138	25
5		84	122	160	257858	3
6		79	123	123	104482	23
7		135	180	323	233928	15
8		95	164	273	366713	13
9		73	92	116	282721	21
10		78	120	189	432228	6
11		45	58	109	124537	3

12		43	97	149	185720	3
13		21	49	62	81136	4
14		118	189	554	405861	33
15		76	60	139	127706	78
16		65	127	525	262985	0
17		60	9	177	544298	1
18		38	35	79	20017	35
19		18	16	16	17009	2
20		31	38	38	44559	7
21		20	32	32	31944	0
		1391	1903	3647	4049193	338

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24614

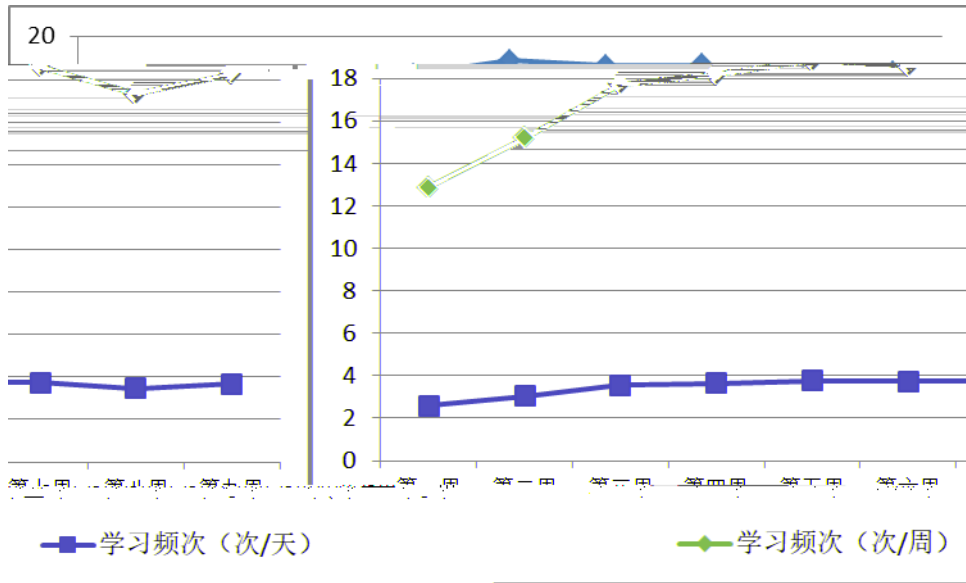
9

18.28 / . 3.66 / .

1 2

2

	.		/ .	/ .
1	2.28	316272	12.85	2.57
2	3.2	747704	15.19	3.04
3	3.9	1309675	17.74	3.55
4	3.16	1790321	18.18	3.64
5	3.21	2317724	18.83	3.77
6	3.29	2749049	18.61	3.72
7	4.5	3210737	18.63	3.73
8	4.12	3416416	17.34	3.45
9	4.19	4049193	18.28	3.66



1 1-9

2.

4 19

3302

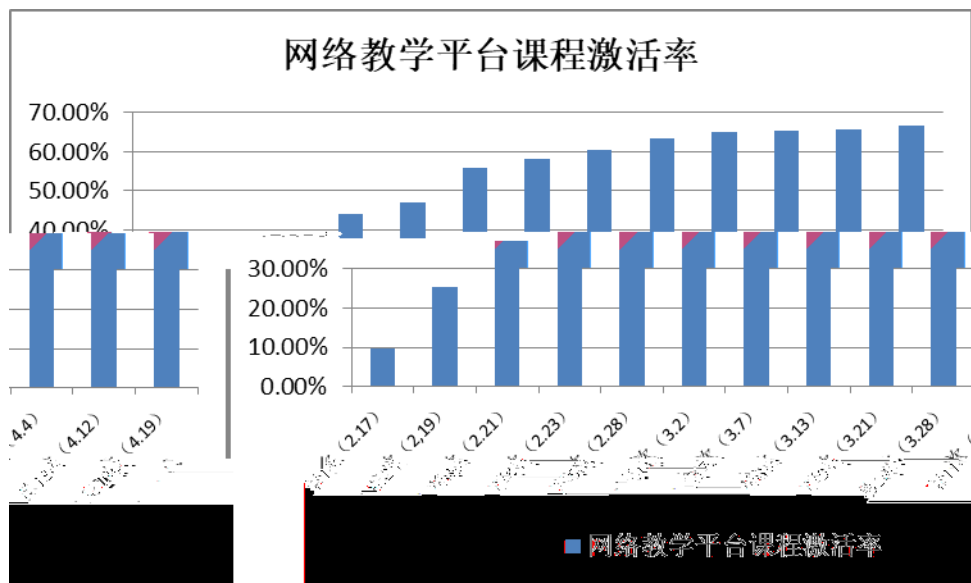
2200

66.63%

3

2

4



2

3

	.			%
1	2.17	3254	318	9.77%
2	2.19	3254	826	25.38%
3	2.21	3254	1214	37.31%
4	2.23	3254	1434	44.07%
5	2.28	3245	1527	47.06%
6	3.2	3245	1821	55.76%
7	3.7	3248	1885	58.04%
8	3.13	3250	1967	60.51%
9	3.21	3250	2060	63.40%
10	3.28	3254	2114	64.97%
11	4.4	3300	2153	65.24%
12	4.12	3302	2170	65.72%
13	4.19	3302	2200	66.63%

4

	1.11-4.19	1.11-4.12	1.11-4.4	1.11-3.28	1.11-3.21	1.11-3.13	1.11-3.7	1.11-2.28	1.11-2.23
	%	%	%	%	%	%	%	%	%
156	97.50%	97.50%	97.50%	97.50%	96.25%	95.63%	93.75%	86.25%	83.75%
115	95.04%	95.04%	95.04%	94.21%	94.21%	93.39%	92.56%	81.82%	76.86%
201	88.16%	87.72%	88.16%	88.16%	88.16%	87.72%	87.28%	83.33%	82.02%
20	86.96%	78.26%	78.26%	73.91%	69.57%	56.52%	52.17%	47.83%	47.83%
119	86.86%	86.86%	86.86%	82.48%	82.48%	80.29%	78.83%	71.53%	64.96%
93			82.88%	82.88%	81.98%	82.88%	78.38%	75.68%	70.27%

				1.11-4.19	1.11-4.12	1.11-4.4	1.11-3.28	1.11-3.21	1.11-3.13	1.11-3.7	1.11-2.28	1.11-2.23
				%	%	%	%	%	%	%	%	%
16		112	66	58.93%	58.04%	56.25%	56.25%	56.25%	50.89%	49.11%	30.36%	27.68%
17		361	194	53.74%	53.19%	53.19%	52.91%	50.97%	48.75%	47.92%	36.01%	33.24%
18		132	57	43.18%	40.15%	39.39%	37.88%	36.36%	32.58%	30.30%	24.24%	18.94%

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2017 Design of Steel Structure

Haojun Chen

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2017 100

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Haojun Chen

ZOOM

Haojun Chen

2020 4 20