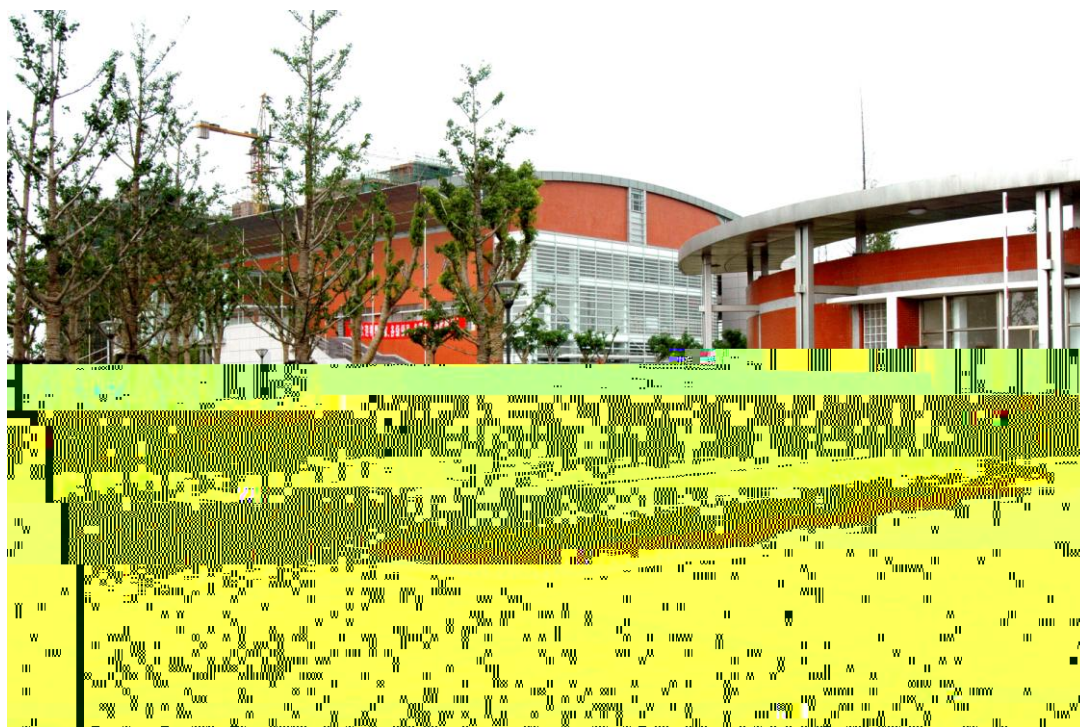




2011



二 一二年十月

2011

1

2000 4 2005 9 2010 7

6

21

5

2011

8331

2980

2011

1209

98.9%

82.1%

19300

97%

487

25.79

7620.99

120.02

42.65

9

2.4

5000

12

50

11

/

3

5

346

770.5

224

634.7

650

220

SCI

EI

ISTP

18

8

9

70

10

3

4

2

3

3.1

2010

2012

3-1 2012

		50-60
		35-45
		30-35
		7
		32-45
		180-190

●

●

●

● 20%

● 1 16

3.2

3-2 / /

2012

2

6

4

54

3.3

2011

613

2221

323

670

980

44.1%

171

236

177

32

27

2011

7

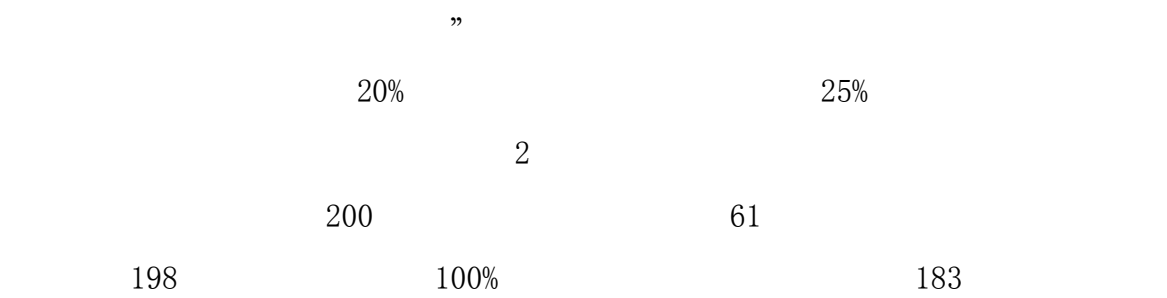
15

1733815

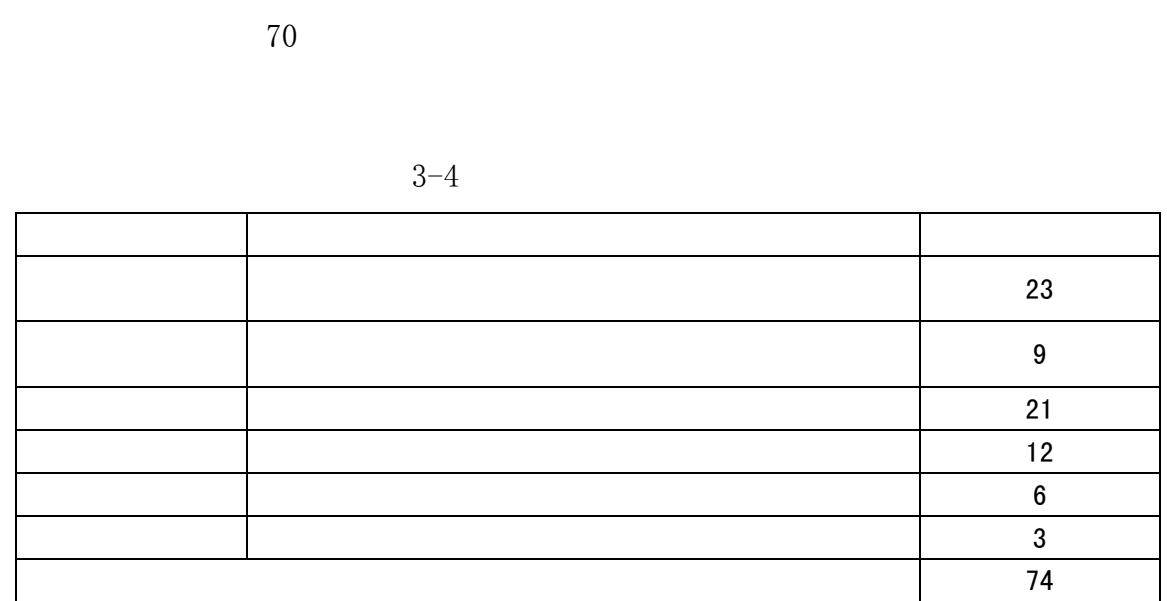
80978

7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19			Java	
20				
21				

3.4



3.5



2011

BOSCH

SPX

3.6

16

6

1

80978

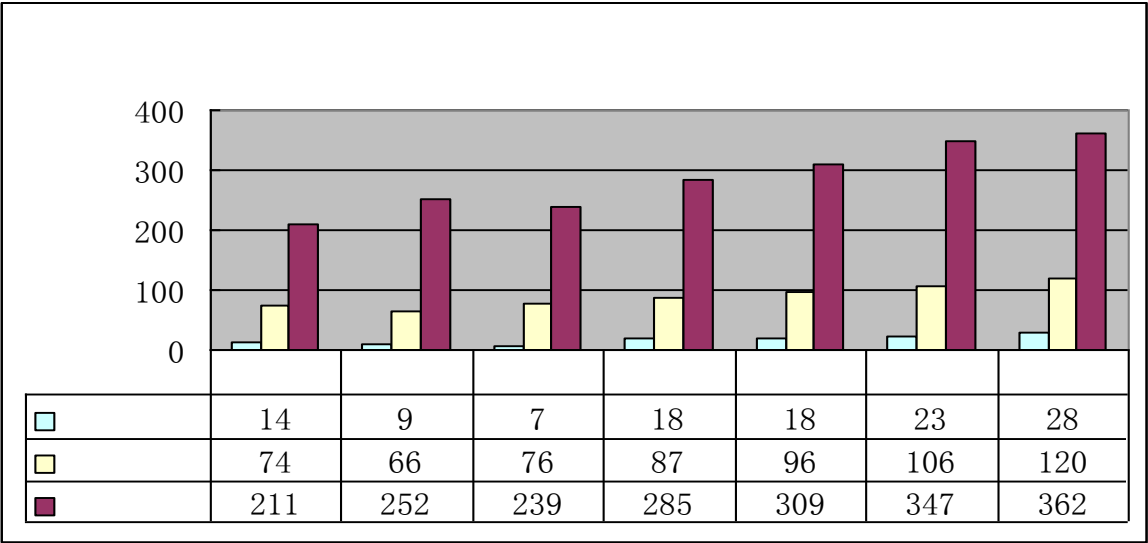
2006

2012

28

120

362



3-1 2006-2012

15

2011

3318

99.02% UPI

164

3.7

13

50

Dreamer

5

4500

150

3.8

14

14

12

8

14626

6715

11881.7

3-5 2011-2012

	3989	537	558	13.46%
	3324	2100	6162	63.18%
	2903	1397	2166.5	48.12%
	2547	1155	1216	45.35%
	885	885	755.5	100.00%
	161	107	214	66.46%
	315	185	255.7	58.73%
	398	331	514	83.17%
	91	5	15	5.49%
	13	13	25	100.00%
	14626	6715	11881.7	45.91%

72

27

53

16

31

6

26

3.9

2011-2012

55

9

6

3

1

Kim, Hyung Suk

2012

2012

7

29

8

1

6

2012

2012

5

8

8

EBS

University 18

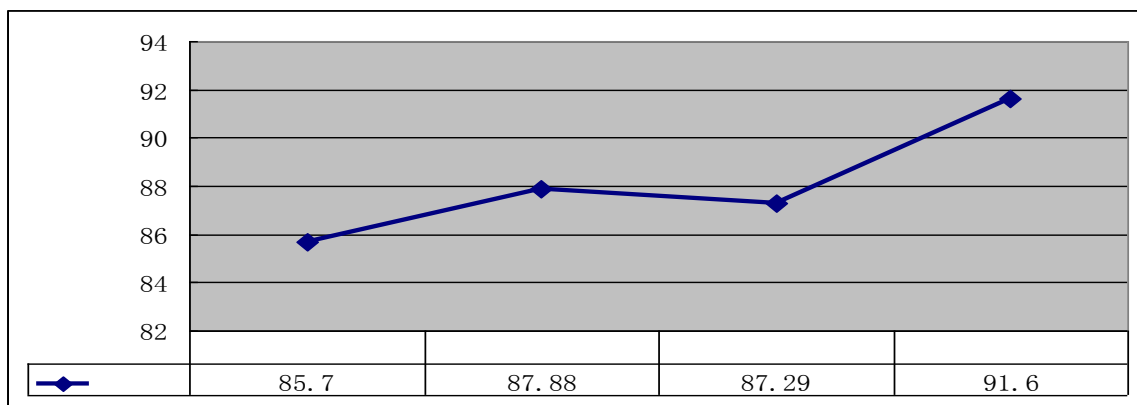
4

4.1

2221

94.1

80



4-1

2008-2012

2

6

4.2

44 12

3324 2100 6162

4% 1759

129 163

163 1621 1390

2018 482

4.3

24

4

2011 2

280 24

2011 11 23 19 11

6 02 908

5



2011



2011

N5

Flashcs5

13



2012

97. 24%

96. 83%



2012

83. 1%

23%



2012

91. 89%



2012

598

34. 55%



966

11. 47%

2012

26. 52%



2011

87. 45%

5-1 2011

1	2011		
2			
3			
4			
5	2011		
6			
7	2011		
8			
9	2011		
10	2011		
11	2011		



80

229

326

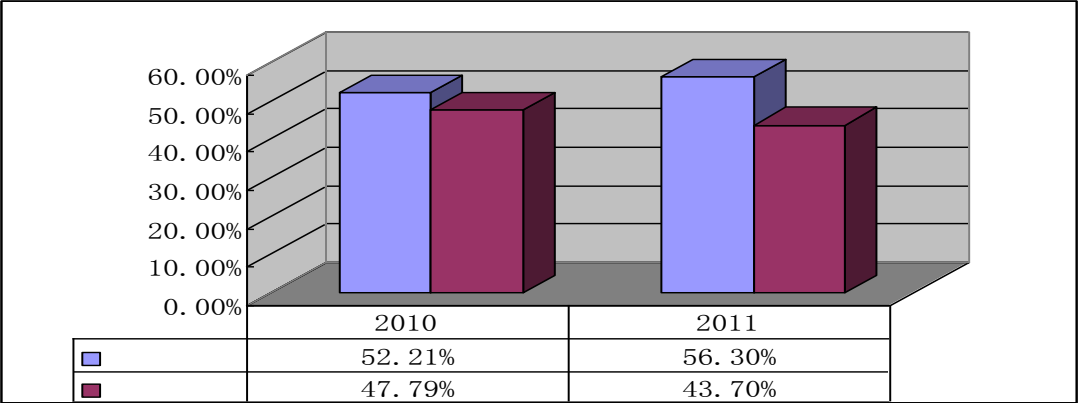
5-2

“ ”	
2011 B)	3
2011 C)	9
2011 D)	1
2011	3 1
	3
	7
	1
	2
	2
	3
	2
“ ”	
2011	
“ ”	
Xfire	2
2012	
2012	

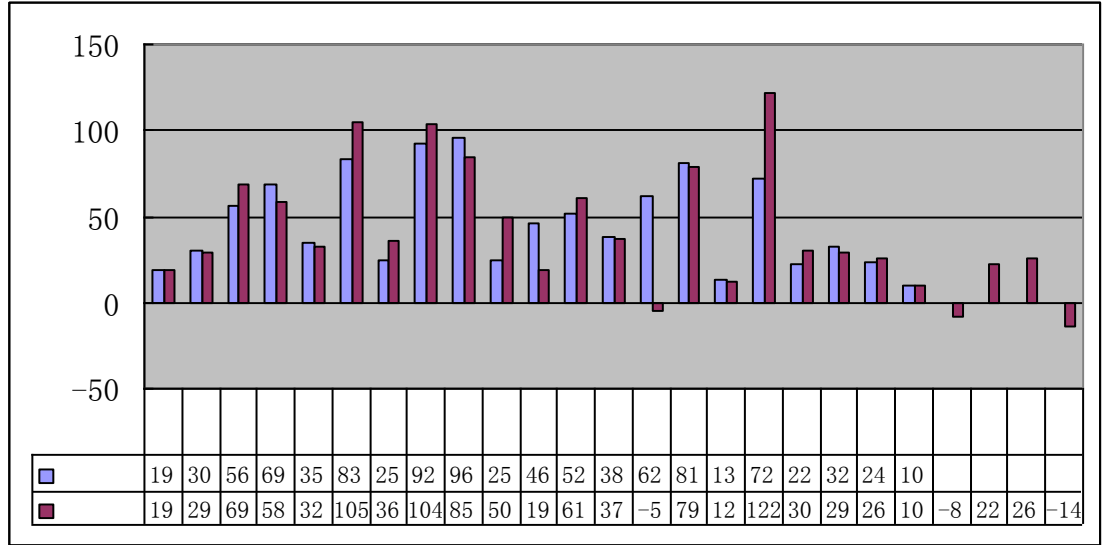
6

6.1

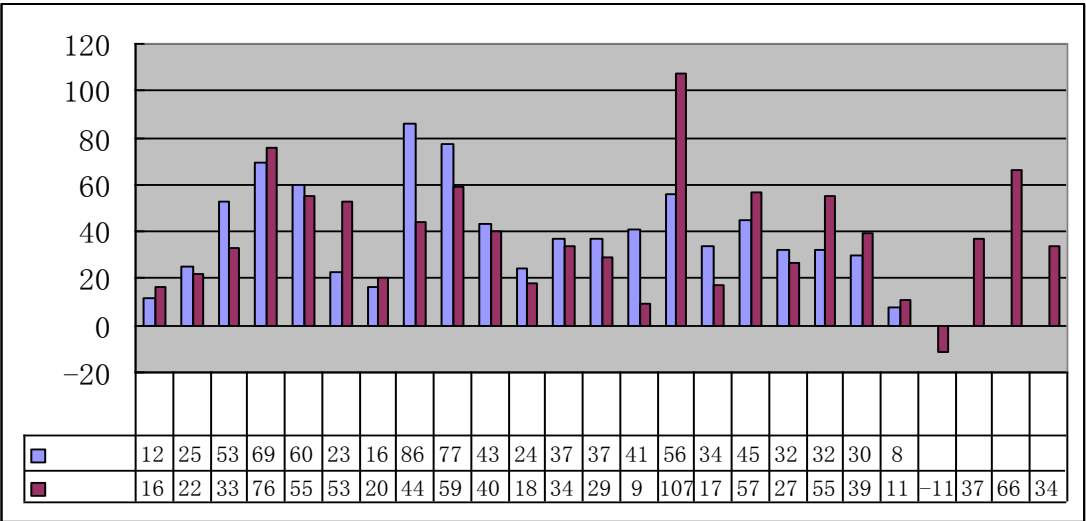
2011	3350	2270	2702
2295	84.9%	150	135
129			



6-1 2010 2011



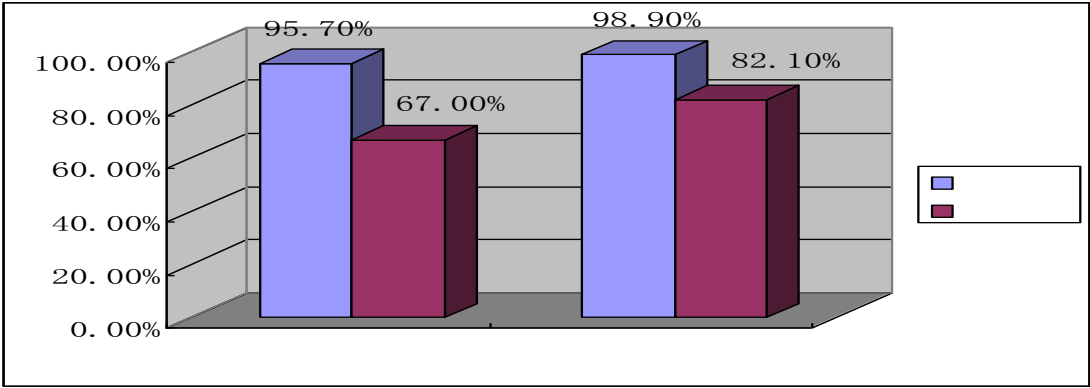
6-2
2011



6-3
2011

6.2

2011 1209 8 31 98.9%
82.1% 2010

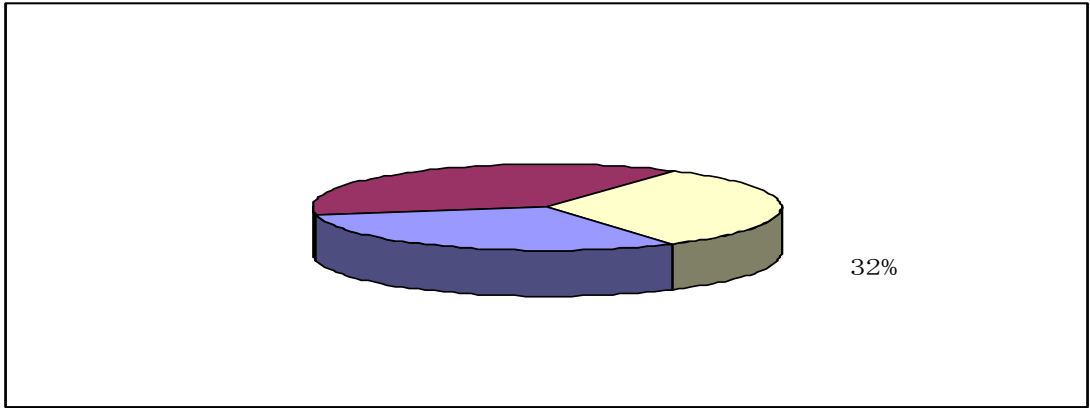


6-4

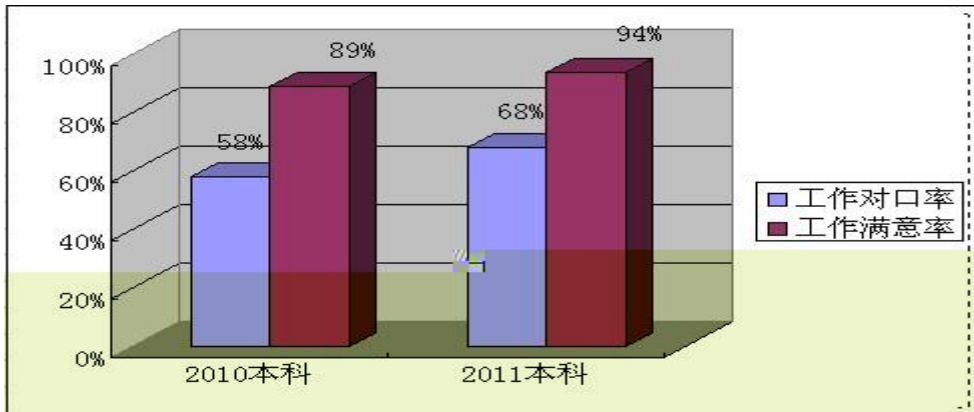
6-1 2011

1.92%	0.25%	10.21%	16.50%	68.87%	0.33%	0.17%	0.08%	0.50%	1.17%

3 689 2011
57% 31%
37% 32% 68% 2010 10%



6-5



6-6

7

7.1

2011

7.2

381

384

84

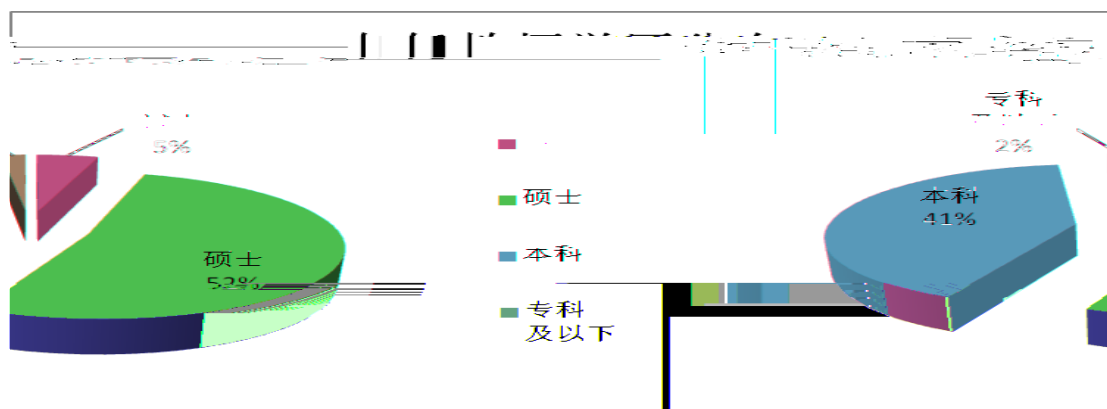
192

615

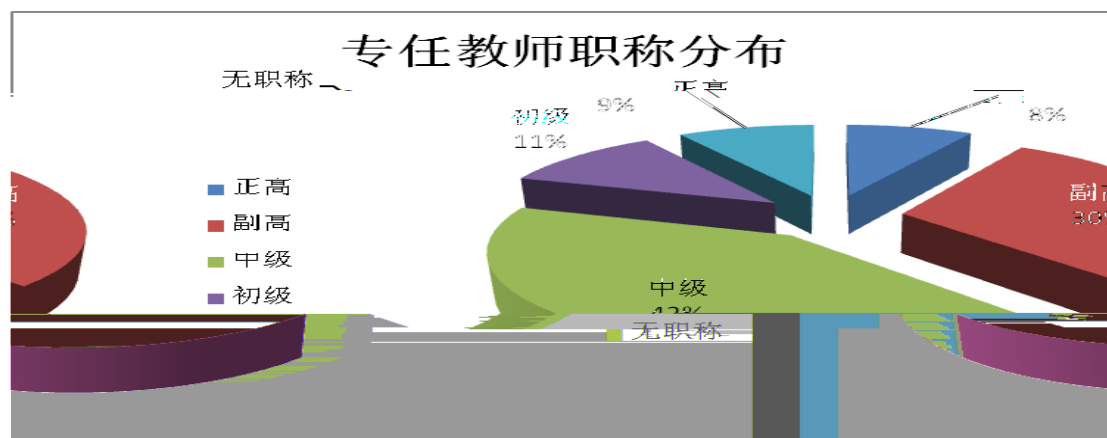
18.4 1

7-1

	381	1 1	381
	84	1 1	84
	300	1 0.5	150



7-1



7-2

9

2

2

1

3

1

6

4

7

8

24

2

11

35

11

3

7.3

15598.87

2207.25

14. 15%

257.35

56. 18

53. 27

1318.23

155.07

7.4

8

7-2

			()			
1			2317	18	357982	900
2			1219	6	36238	140

13

1240

7620.99

7.5

7.5.1

2011

286078

25.29

1200159

106.10

EBSCO

25126

426500

/

25

22

212

195

92%

7.5.2

100

10

10

1Gbps

1Gbps

100Mbps ,

Vlan

PDS

5000

3, 200

19

Internet

8

8.1

8.2

8.3

2012

8.4