1942 2002 2012

2013 “

” 2015 “ ” 2016

“ ”

“ ” “

” ,

121

“ ”

2016 2017

“ ”

2016-2020

“ ”

2017 8

31

118 14

3 2017

“ ”

“ ” “
”

“3+2” “4+2”

“ ”

2016 2017 22 62
9
1

1 2016 2017

	22		2002	2010 2012 2007	
			2013		
			2003	2010	
			2005	2013	
			2014		
			2016		
			2009		
			2012		
			2007	2014 2013	
			2016		

			2014		
			2011		
			2005	2012 2010 2016	
			2013		
			2014		
			2015		
			2010		
			2012		
			2016		
			2003	2014 2007	
			2010		
			2011	2013	
			2013		
			2006		
			2012		
			2013		
			2004	2010	
			2002	2012 2007	
			2007		
	8		2004		
			2002	2007	
			2005	2013 2010	
			2003		

			2006	2013	
			2012		
	10		2008	2013 2016	
			2009		
			2006	2008	
			2009		
			2004		
			2004	2014	
			2004		
			2013		
			2006		
			2011		
			2007		
			2013		
	5		2002	2007	
			2011		
			2003	2010 2007 2010	
			2005		
			2015		
	4		2008	2013	
			2010		
			2002		
			2007		
	3		2002	2010 2014	
			2006		
			2003		
	1		2008		
	1		2003		

2016 9 22446 (7)
19631 87.46 2808
12.51 23185

2016 9 60 5735
4890 845 5759 4712
81.82% 1047 18.18%

23 2
50.45% 0.09%

2 2014 2016

		2014		2015		2016	
			%		%		%
		5211	100	5470	100	5759	100
		4006	76.88	4449	81.33	4712	81.82
		1205	23.12	1021	18.67	1047	18.18
		19		18		23	

2016 4890 105.1%
4740 96.93%
10 13 15.33
20.73 499 511 3
23 18

2016

			%					
	824	833	101	499	468			

4 2016

				%
		70	163	232.86%
		120	260	216.67%
		30	64	213.33%
		130	255	196.15%
		120	208	173.33%
		180	375	208.33%
		50	75	150.00%
		70	104	148.57%
		60	77	128.33%
		60	77	128.33%

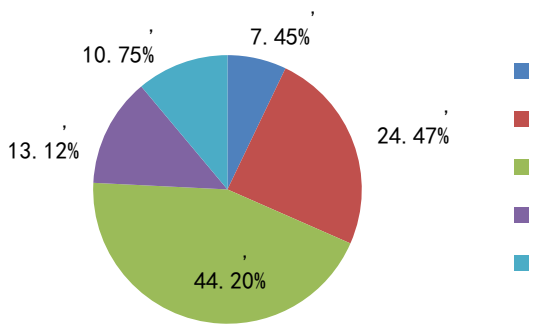
1

“
” “
”

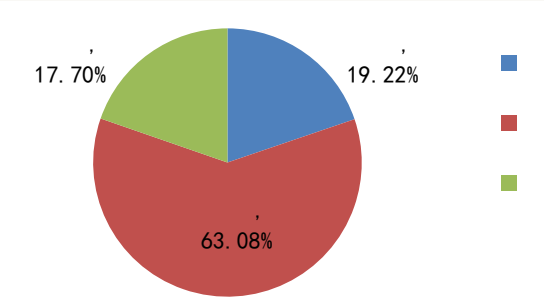
2016 2017
1514
1181 217
17.98 1
88
289
7.45% 24.47%
1
227 745

19.22% 63.08% 2 35
456 36
45 488 46
237
38.61% 41.32%
20.07% 3

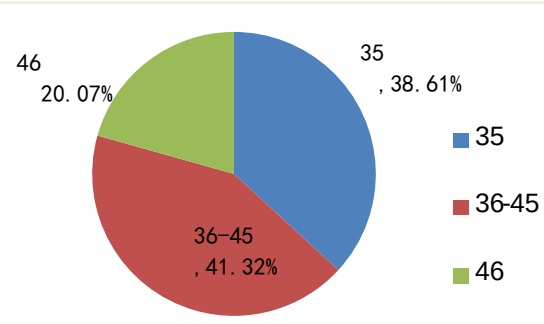
239
20.24%



1 2016-2017



2 2016-2017



3 2016-2017

2

2016 2017 37
889 95 480
350 1
1 2016 11
4
“ ”“

” 2016 2017 40
41 2017 8 4
4 6 3
2 5 2
5 17
55
3
2 2 3

2016 2017 10 64
5 336 SCI EI CSSCI
116 185 254 34
216 4

3

2016 2017 1136 96.19%
5869 57
66.28% 6.34%
5.84%

2016 4985.53 2015 59.62%
2539.62 2179.88 2015
6.98% 245.07 124.84 306.56
156.16 2016 2015
1862.12 5

5 2016

	2015	2016	%
	3123.41	4985.53	59.62
	2037.73	2179.88	6.98
	235.61	245.07	

2016 991098.29
451061.73 812204.88
318489.14 14.19
104612.13 2017 8 52
10 110634 3672.78
2017 8
167 19028
11 1052

20080 89.46
16
25
3615
2016
27161.79
1.17 2016
34
3515
5019.46
22.70%
6217
27.70 6

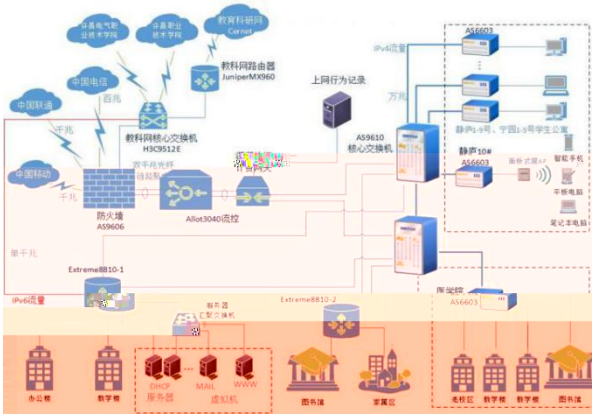
6 2016 2017

991098.29	44.15
318489.14	14.19
104612.13	4.66
114306.78	5.09
20080	89.46
6217	27.70
27161.79	1.17
5019.46	22.70%
205.9557	88.83
10.612	4.58

45417.45 21
205.9557 88.83 10.612 4.58
554853 56058 26
39221 2016 2017 132.17
26.65 11.87 1290377

45 2017
8 17864
15.3G 27

83 2016 2017
978



“ 40G ”

OA

16

3 10

159 68 2016 2017 40

9000 2017 8

665 22000 98%

56

1.

“ ”

2

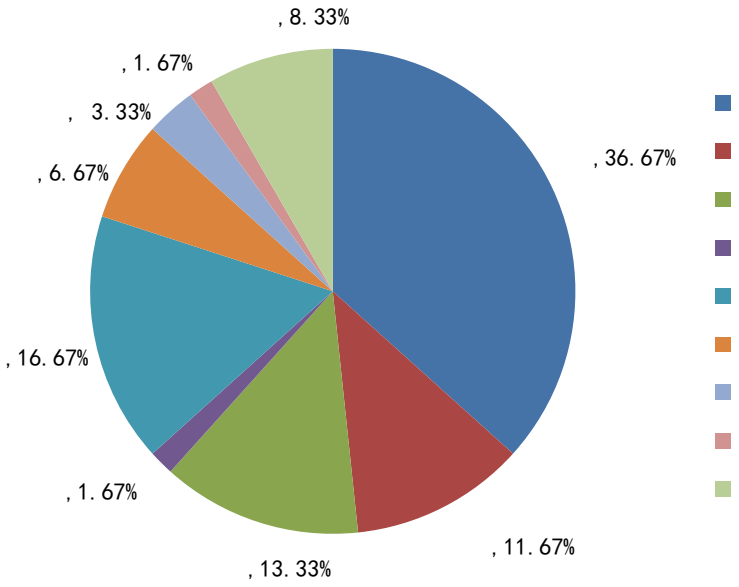
2016 2017 “

”

3 60

90% “

” 4



4 2016 2017

3.

“

”“

”

“ ”

4

4

4.

7 7 8

19

7

1			
2			
3			
4			
5			
6			

7

”

11 40 8

7 251 2016 2017 2

1

3

8

2017 8 4 3

1 1

9

1				2007	
2				2008	
3				2009	
4				2010	
5				2013	
6				2014	
7				2015	
8				2016	
9				2016	

2

3 “ 21

”“ ” 2016 2017

82.5% 5

10 “ ”

2017

3

2016 2017 2413 6 171

2155 87 19

4849 5869 90 908

61 90 978 31 60 2437 30 1546

57 47

77 69 / 15

1

2016

“ ”

2

2016 2017 “ ” “
”

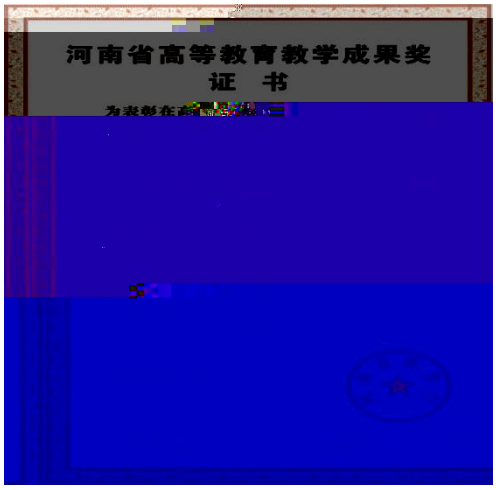
2016 “ ”

3.

43

4

2016 2017
14
9
3 2
2



1

223
236 276 10
276 2017 8 1 2

1 2

1 2 1

2 5

9

2

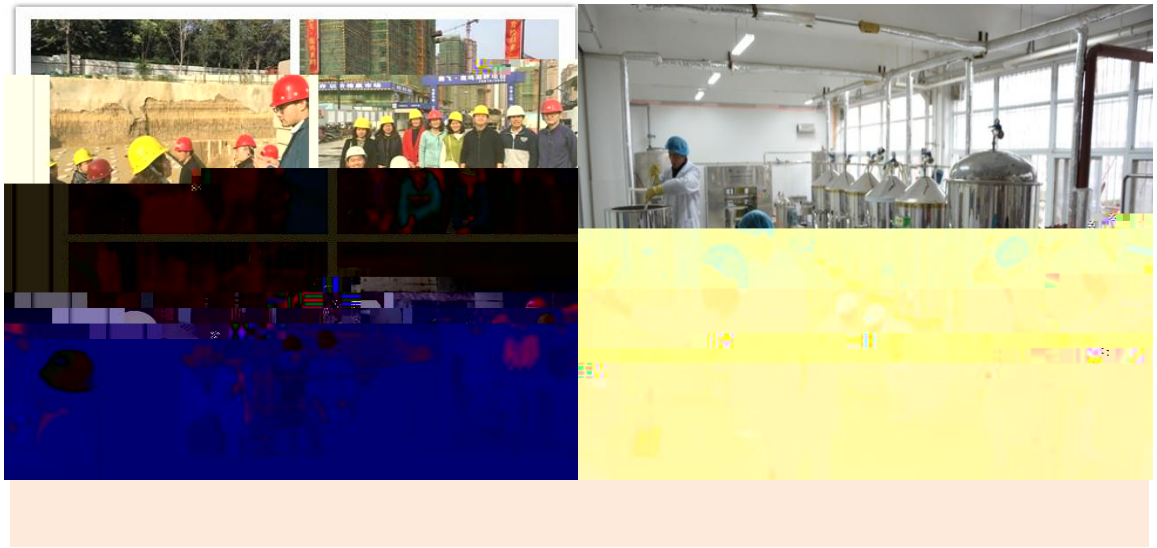
“ ”

2016 2017 918

428 46.62% 98.92%

2016 56.5

32.66 % 63.8 35.44%



3

2017

88.64%

“ ”

1

“ ”

“ ”

“ ”

8360

“ ”

2016 2020

“

”

2

“ ”

“ ” “ 3+X+Y ”

“ ” “

” “ ”

“ ” “

” “ ”

3. 3669

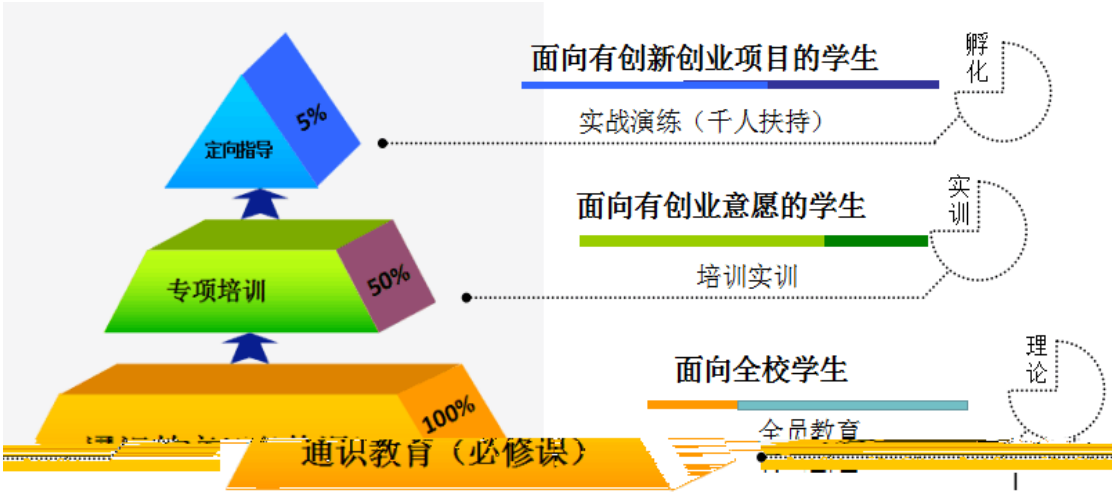
“ ”

“ ”

“ ”

“ 3 ” “ X ” SIYB KAB

“ Y ”



5 “ ”

4

“ ”

“ ”“ ”

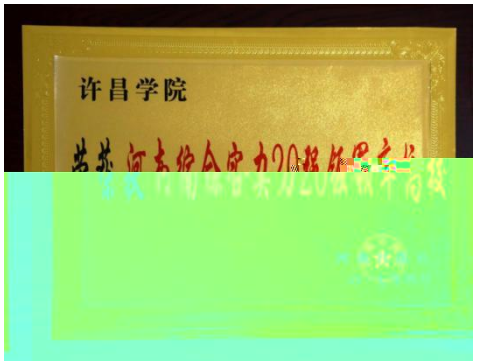
“ ”“ ”“

”“ ” “ 2017

”

2016 “ ”

1 4 3 6



2 510

+

1

3 5 2017

1 “ ”

“

”

1.

“ ”

2

2016 2017

3

1.

“ ”

6 ثم

4

6

2016

10

2017 3

5

2016 2017

1

“ ”

2016 2017

665 “ ”

113

4

1

1

2 2 “

” “

”

194

11 16

15

2

“ ”

“ ” 2016 2017

9103 2718.34 10

10 2016 2017

2

2016 2017

2 850 12000

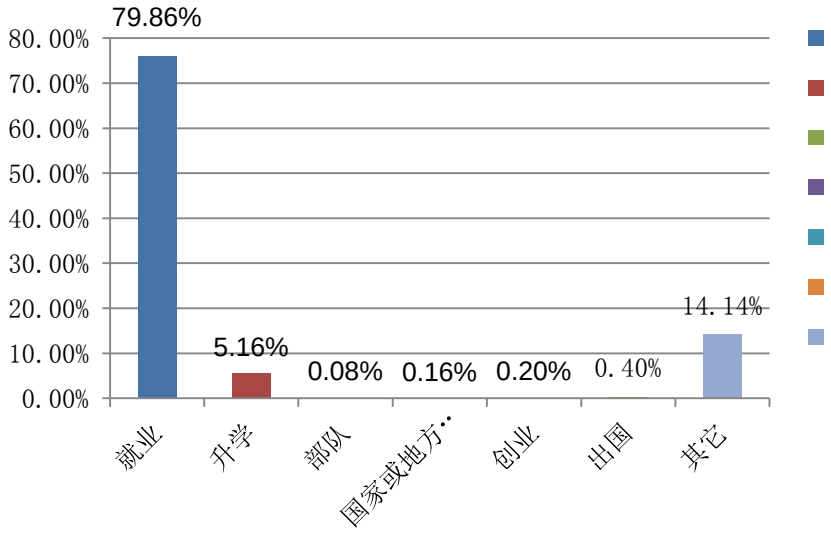
15 50 800

37 96 1000 2017

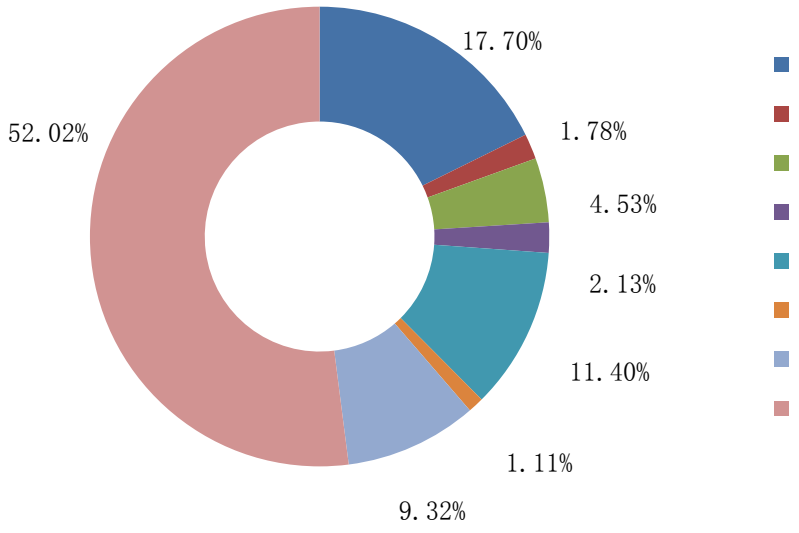
85. 86% 260 5. 16% 7

8

“ ”



7 2017



8 2017

3

2017 “ ”

92.31%

2016 2017

400

，

2016-2017 “ ”

2015

“ ”

2016 2017

4 “ ”

41

2016 “ ”

2016-2017 “

” “

” “ ”

2016

“
”
“
”

6000 “ ”
“ ”

“ ”

2017 8
125 1000 853
110 233.9 574.2 2016 2017
86 27

2016-2017
112
“
” “ ”
“ ” “ ”
2016 239
“
”

31
2017 8 171
78.80%

2016　2017

“　　”

“　　”　　“

”

“　　”

“ ”

“ ”

“ ”