Results of the last data collection

Külli Kori & Heilo Altin

Results of the last data collection

- Data collection during admission
- First-year dropout
- Data collection at the beginning of the first semester (2014 students)
- Data collection at the beginning of third semester (2013 students)

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Admission

- Summer 2014
- In Admissions Information System (SAIS)
- Candidates background information.
- How much the following factors have influenced you to candidate ICT related curricula? (5-point scale)
  - Prior experiences in ICT field
  - Job opportunities and salaries in ICT field
  - Personal development that ICT field offers
  - Fast development on ICT field
  - Wish to continue prior ICT studies
  - Learning environment in the university
- The factors were found with factor analysis based on last year data collections

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Data collection

- University of Tartu (UT)
  - Computer Science
  - Computer Engineering
- Tallinn University of Technology (TUT)
  - Computer and Systems Engineering
  - Business Information Technology
  - Informatics
- Estonian Information Technology College (EITC)
  - IT Systems Administration
  - IT Systems Development
  - Information System Analysis
- Tallinn University (TU)
  - Computer Science
  - Applied Computer Science

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Candidates

- Together 3037 applications for 4 universities
- We do not have all the candidates' names, so we cannot say how many candidates applied to more than one curriculum or university.
- 793 students started ICT studies in the four universities

University	Candidates	Accepted	Competition	Competition in 2013
UT	490	165	3.0	2.88
TUT	1543	356	4.3	2.18 + ?
EITC	696	166	4.2	4.55
TU	203	106	1.9	?
Total	**3037**	**793**	**3.8**	**3.11**

In UT there were more positions than students who started studying:
in computer science 150 positions, but 132 students;
in computer engineering 50 positions, but 32 students.

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Male and female students

- 21.5 % of the candidates were female
- 23.2% of the ICT students who started studying are female
- Last year 25% of the students were female
- Business Information Technology curriculum (in TUT) is not pure ICT and there are more female students – 43.6%.

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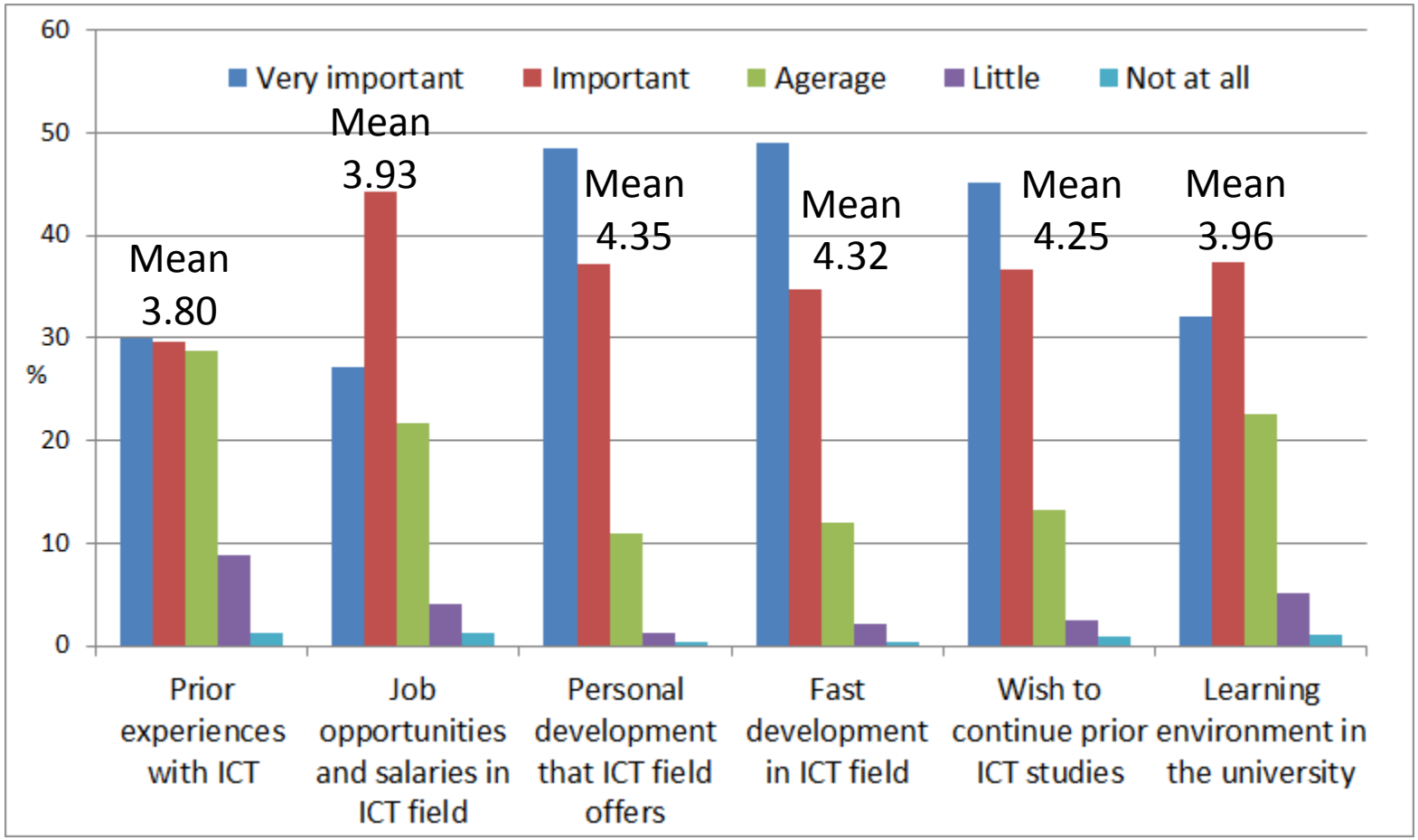
Factors that influenced candidates



Differences between male and female candidates

Factor	Mean (male)	Mean (female)	p
Prior experiences with ICT	3.89	3.45	**<0.01**
Job opportunities and salaries in ICT field	3.93	3.95	>0.05
Personal development that ICT field offers	4.33	4.41	**<0.05**
Fast development in ICT field	4.32	4.33	>0.05
Wish to continue prior ICT studies	4.29	4.10	**<0.01**
Learning environment in the university	3.97	3.94	>0.05

Dropout in first year

- Students who started ICT studies in fall 2013 in UT, TUT and EITC

University	Dropout rate
UT	25.5%
TUT	33.2%
EITC	35.8%
Total	**32.2%**

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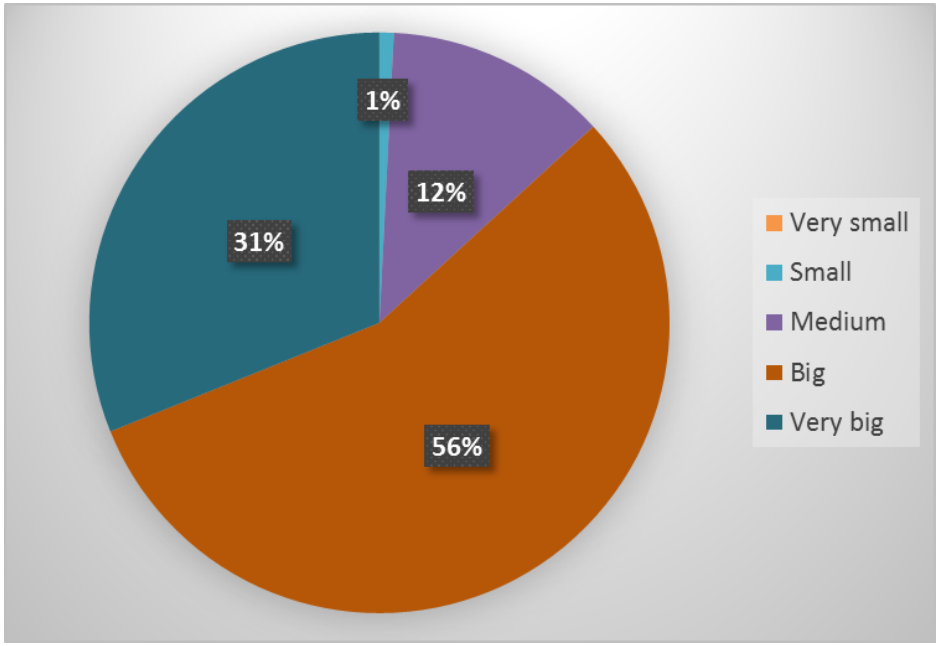
Data collection at the beginning of the studies

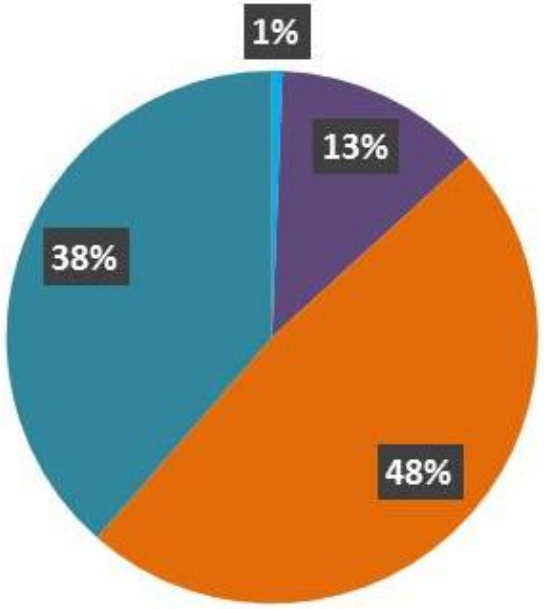
- September and October
- 651 first year students:
  - 140 from UT (84.8%)
  - 301 from TUT (84.5%) + 30 from other ICT related curricula (Mechatronics, Electronics and Telecommunications)
  - 123 from EITC (74.1%)
  - 53 from TU (50%)

How large is students' interest in ICT?

2013

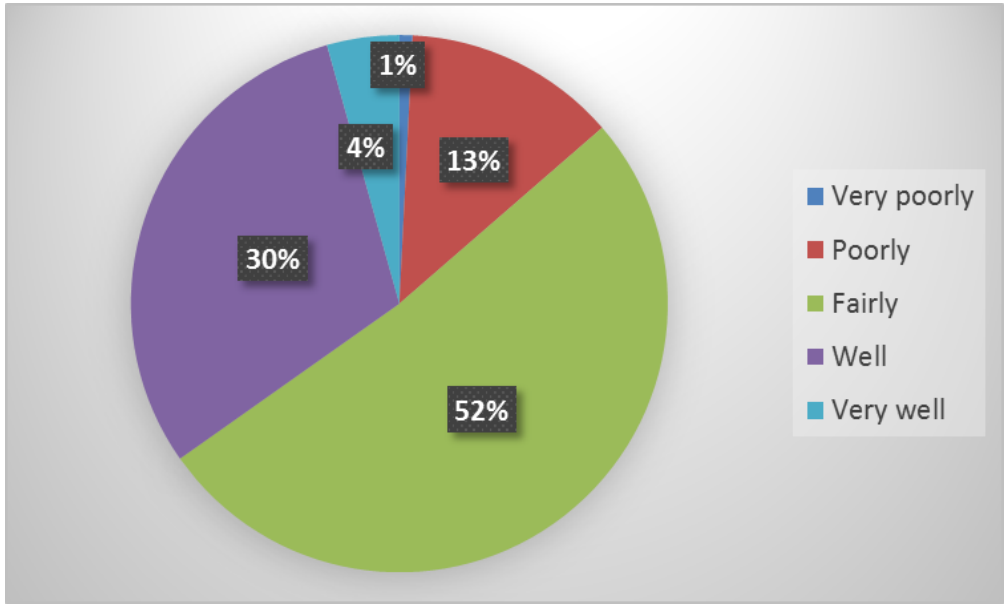


2014

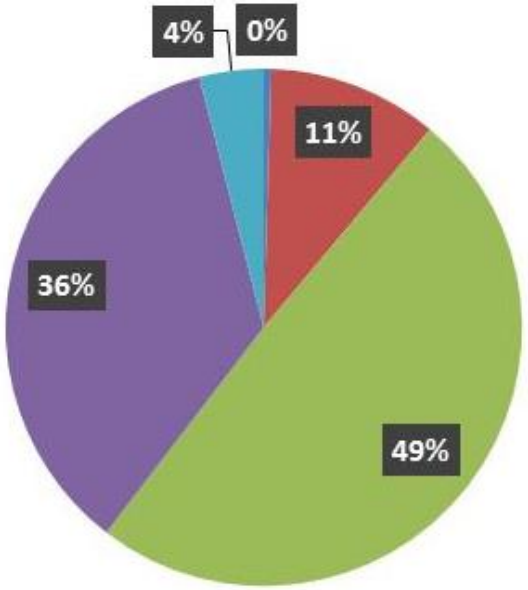


How informed are students about job opportunities in the ICT field?

2013

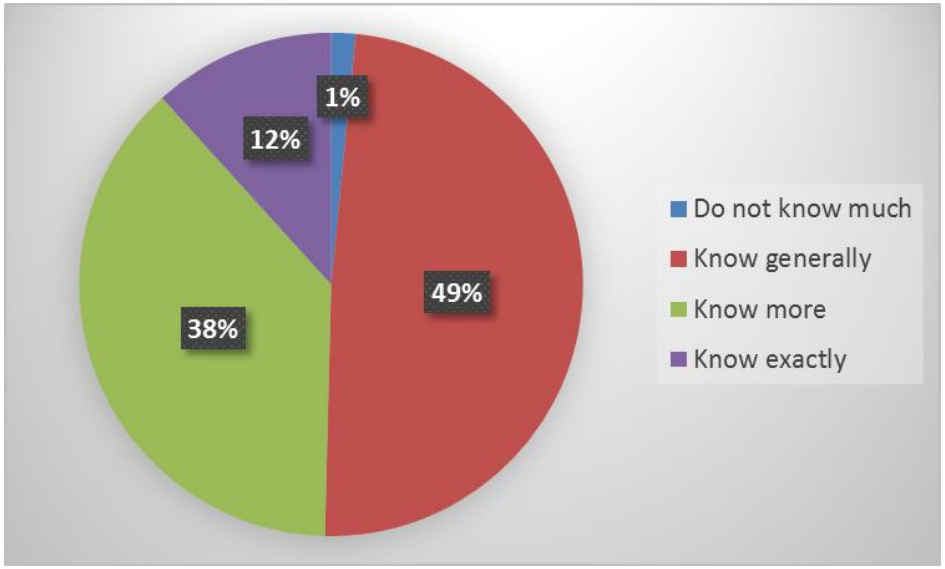


2014



How informed are students about the curriculum they are studying?

2013



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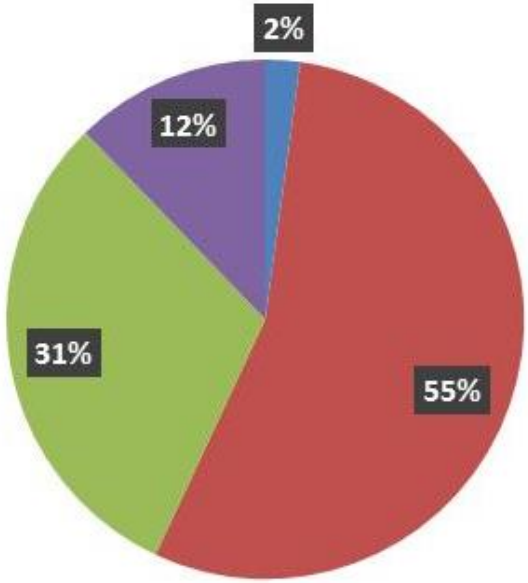
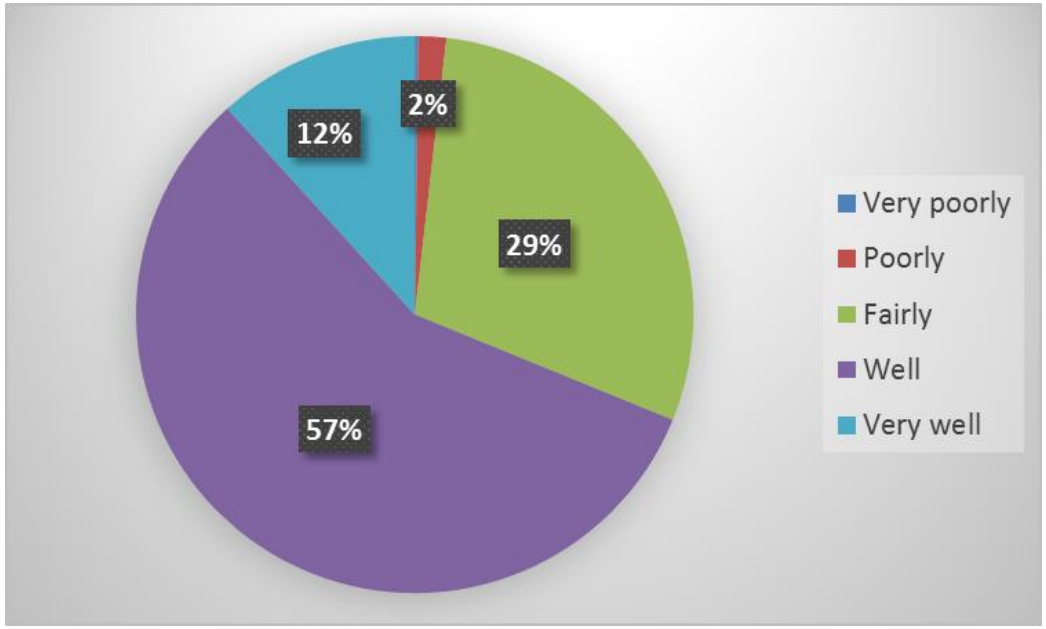


How well does the curriculum meet student expectations?

2013



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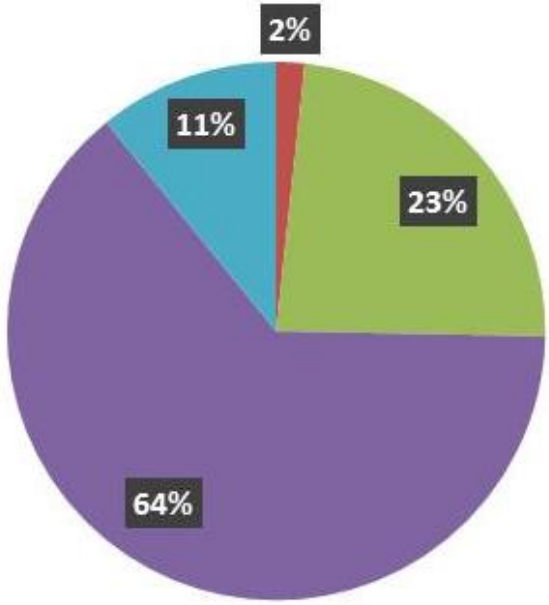

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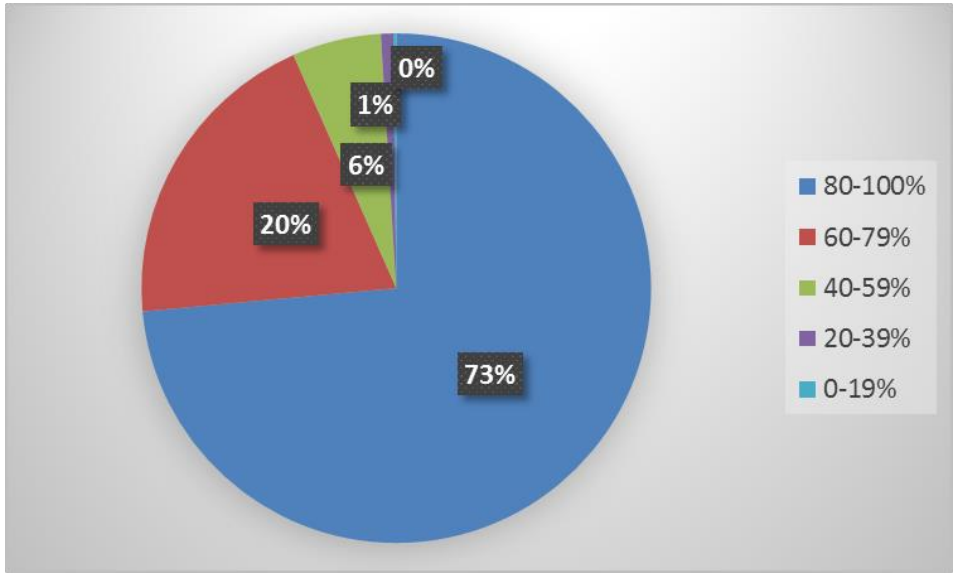
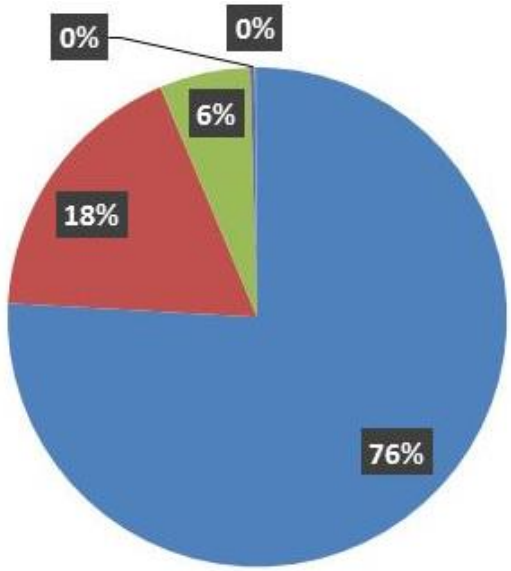
With what probability do students think they will finish their studies?

2013

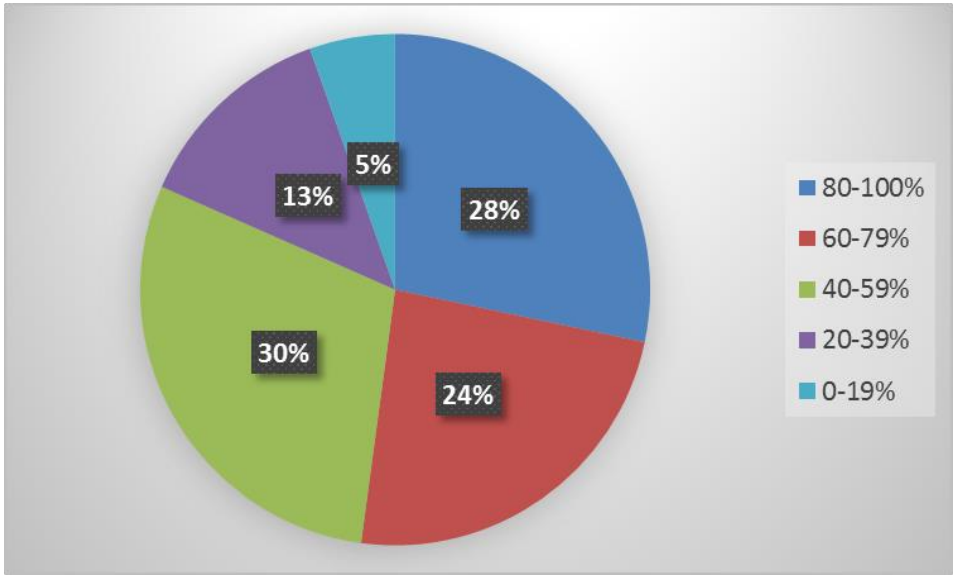


2014



How large is the probability that students start working during studies?

2013



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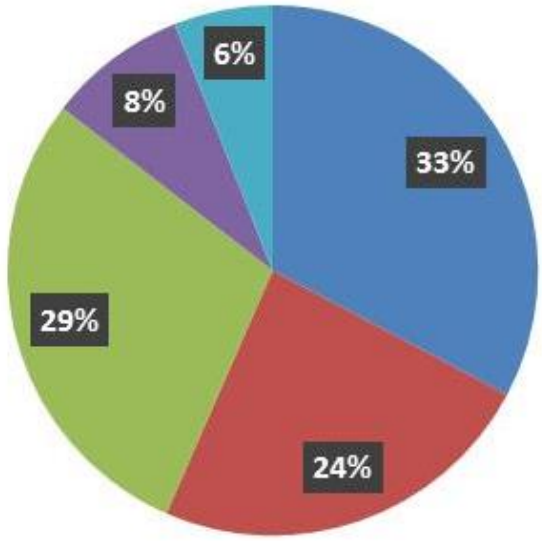
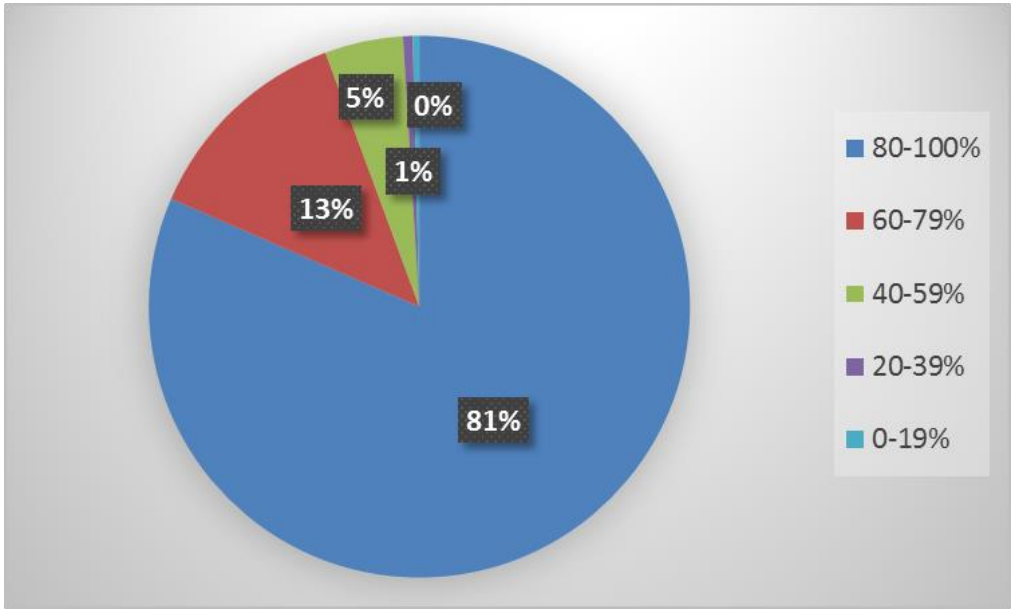


How large is the probability that students work in ICT field after studies?

2013



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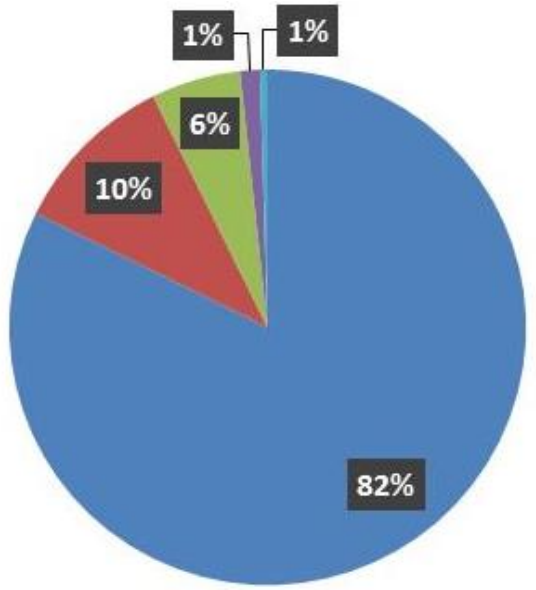
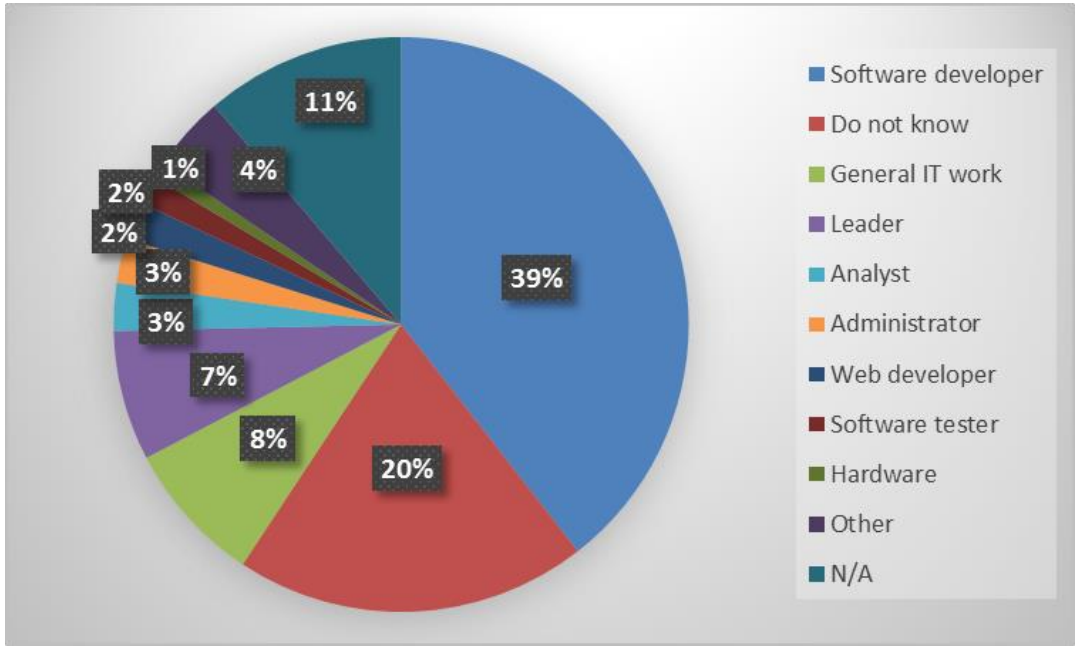
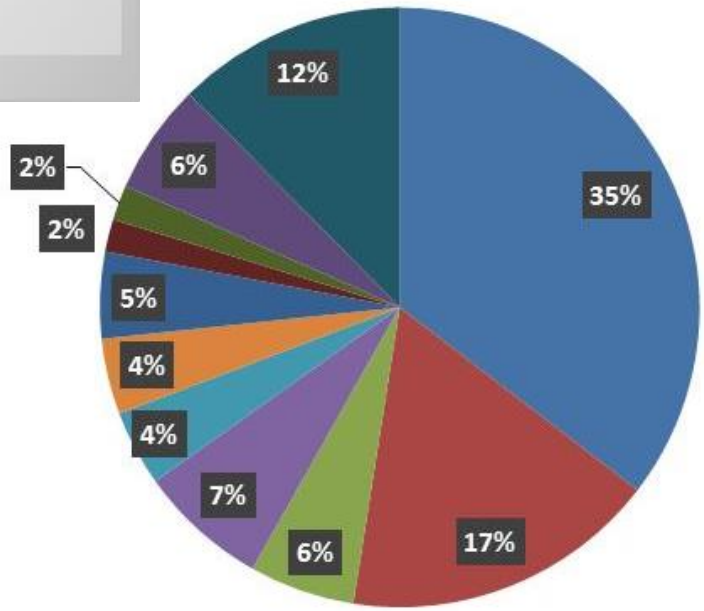


What kind of jobs do students want?



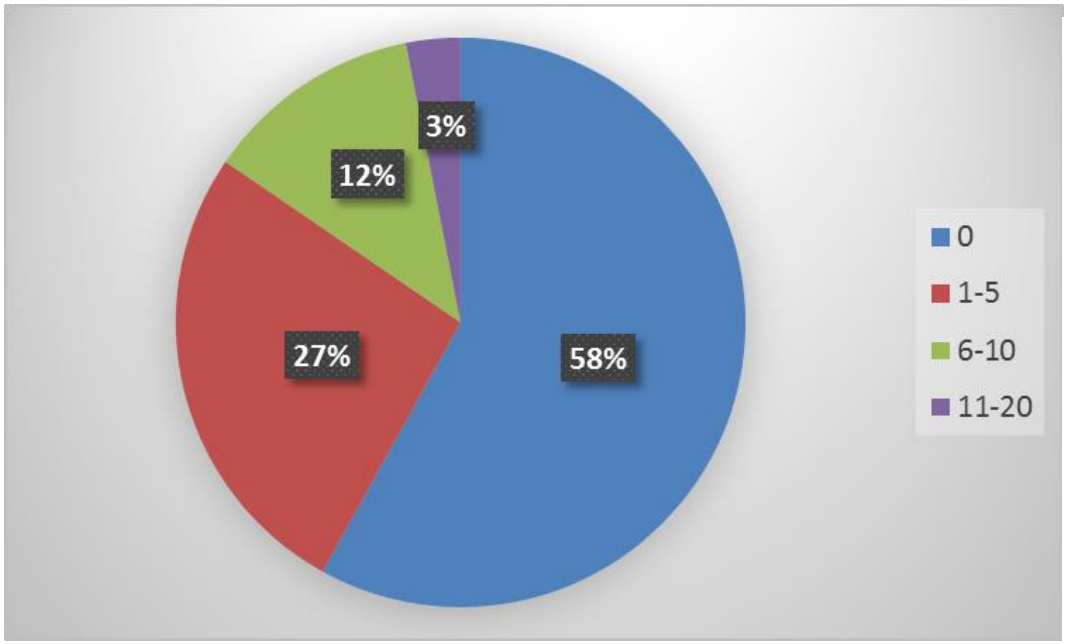
2013

2014

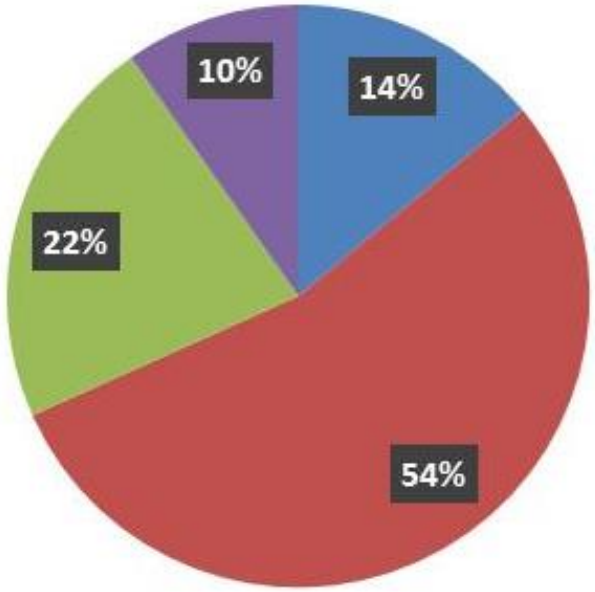


How many of their friends are also ICT students?

2013

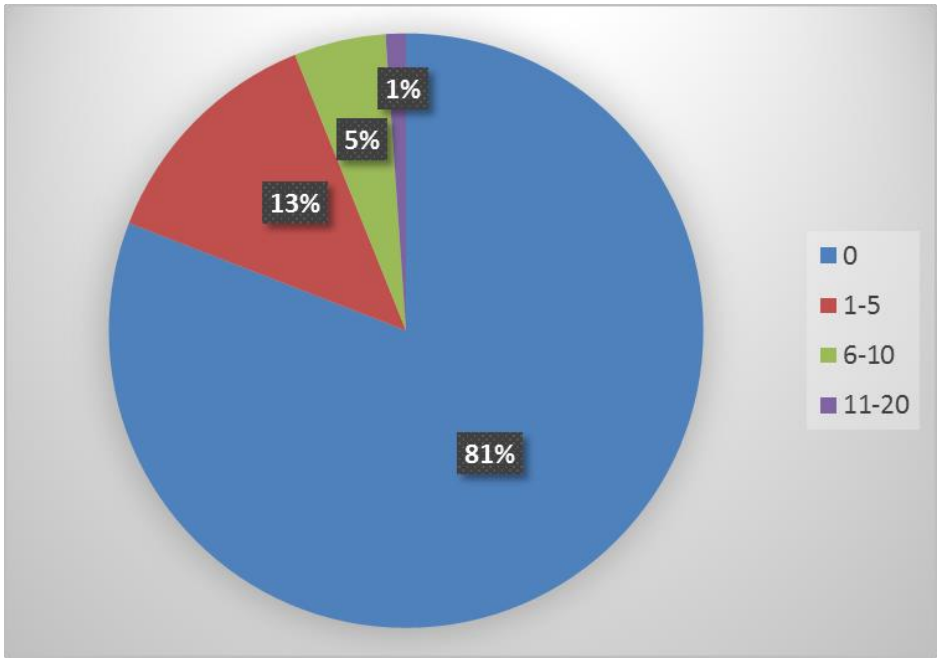


2014



How many of their friends work in the ICT field?

2013



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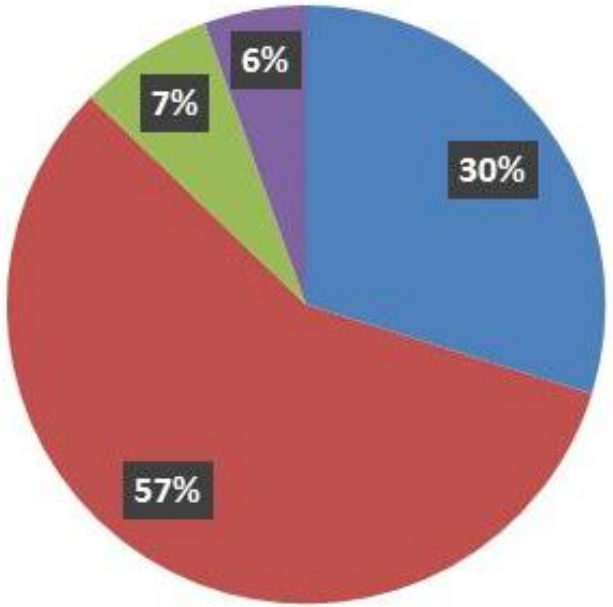

What was the ‘breaking point’ that caused interest in ICT?

Breaking point	2013	2014
Good salaries	2%	2%
I like ICT (emotional point of view)	3%	1%
Interest in mathematics	4%	1%
The field in general is important/promising	5%	7%
No direct ‘breaking point’, interest came with time	5%	6%
Computer games	6%	6%
Everyday work related or other contact with IT	7%	10%
Computer lessons in school	9%	5%
Someone recommended or was a role model	9%	16%
Other reasons	14%	11%
First computer, experience of doing something by myself	36%	35%

Was the ‘breaking point’ also the reason why they chose this curriculum? If NO, then why?

2013 44% answered NO
2014 36% answered NO

Reason	2013	2014
I like ICT	3%	4%
Someone recommended	5%	10%
Good job, wide range of job opportunities	16%	12%
Interested in ICT	17%	20%
Other	19%	11%
Curriculum was suitable in personal perspective	40%	43%

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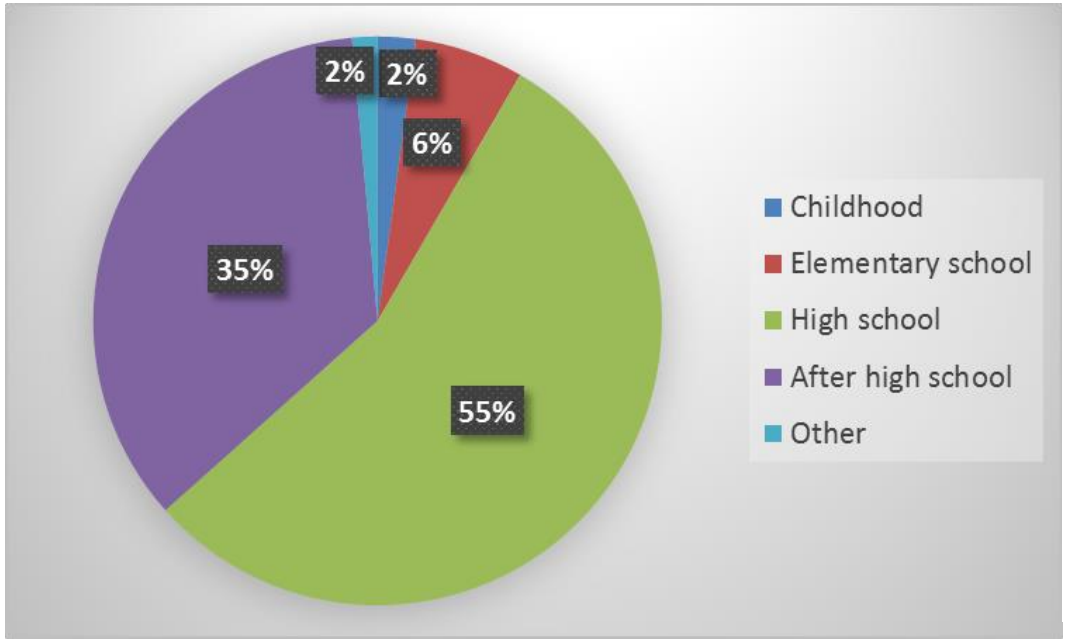
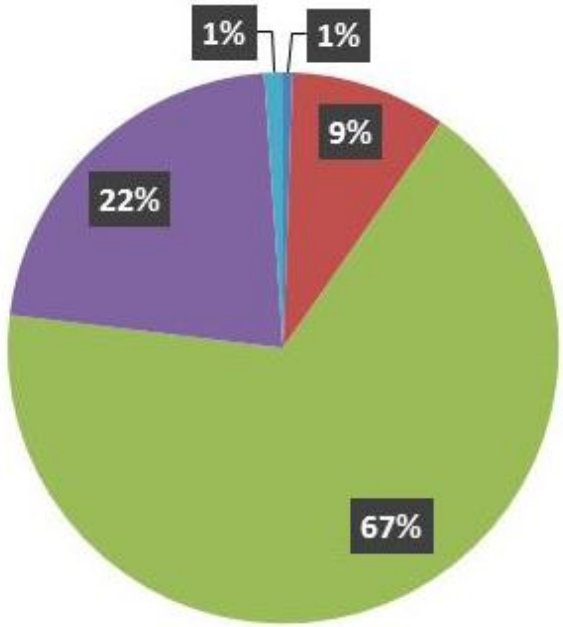
When did students decide to study ICT?

2013



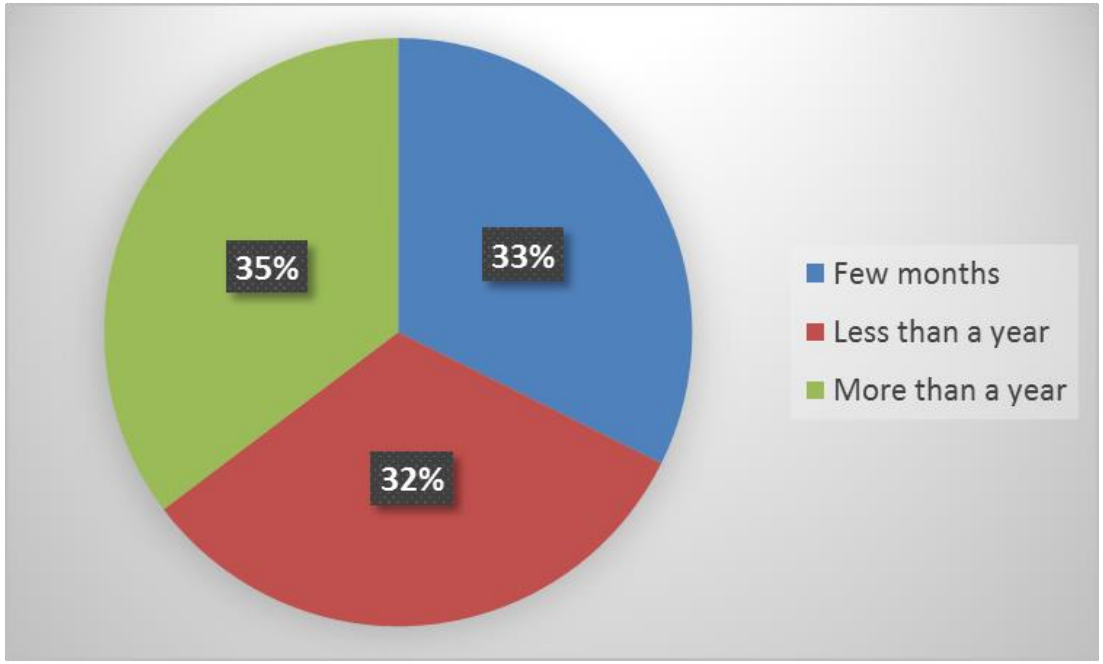
2014



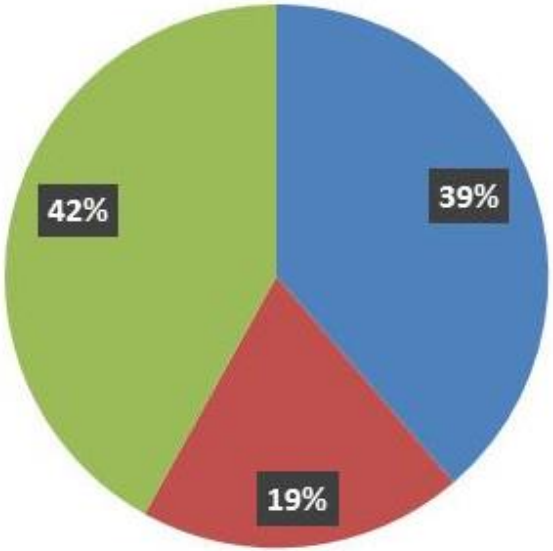
Have the students worked in the ICT field before? If YES, then how long?

2013 13.7% answered YES
2014 15.5% answered YES

2013

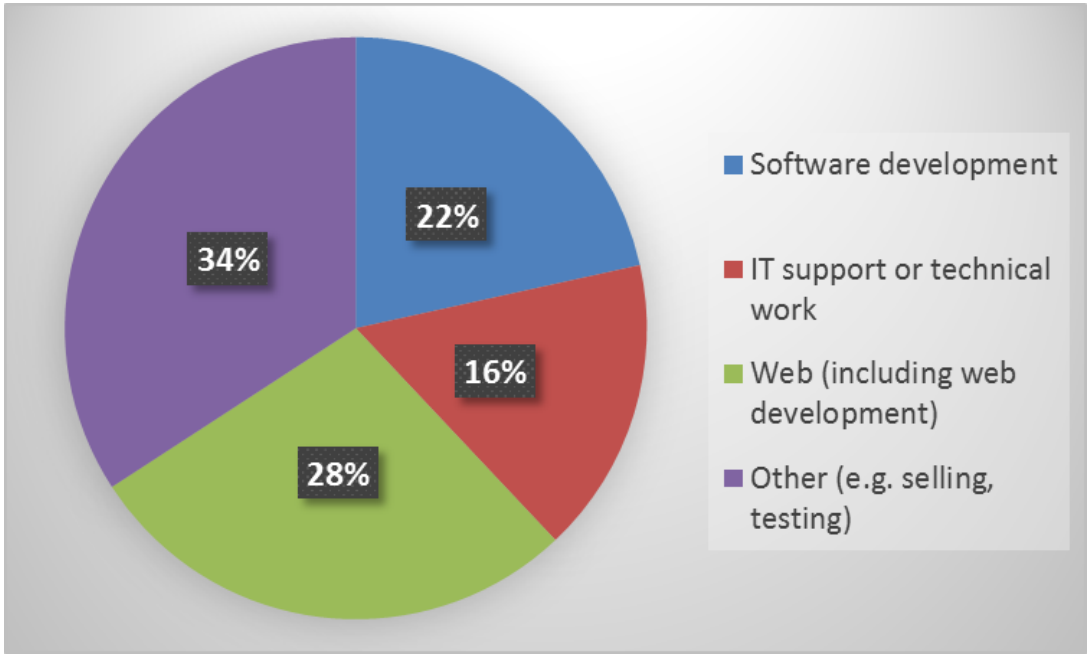


2014



What kind of work have students done in the ICT field?

2013



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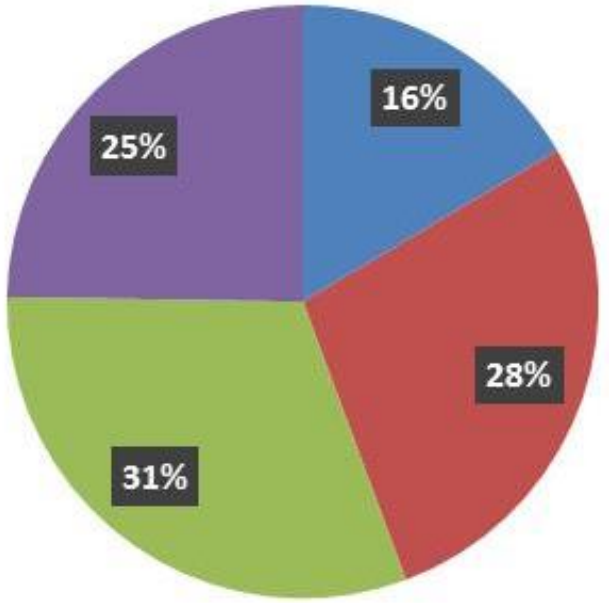
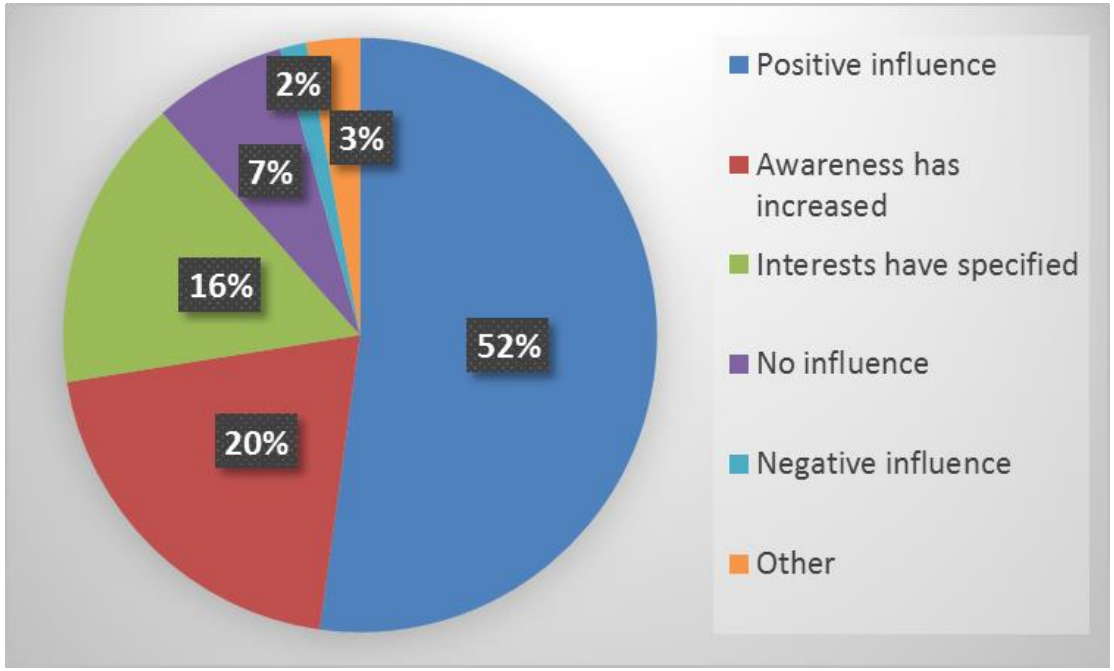
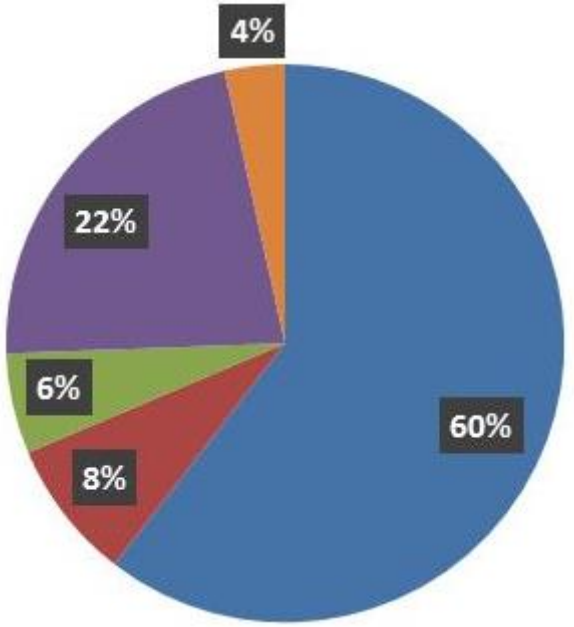


How have working experiences influenced students interests?

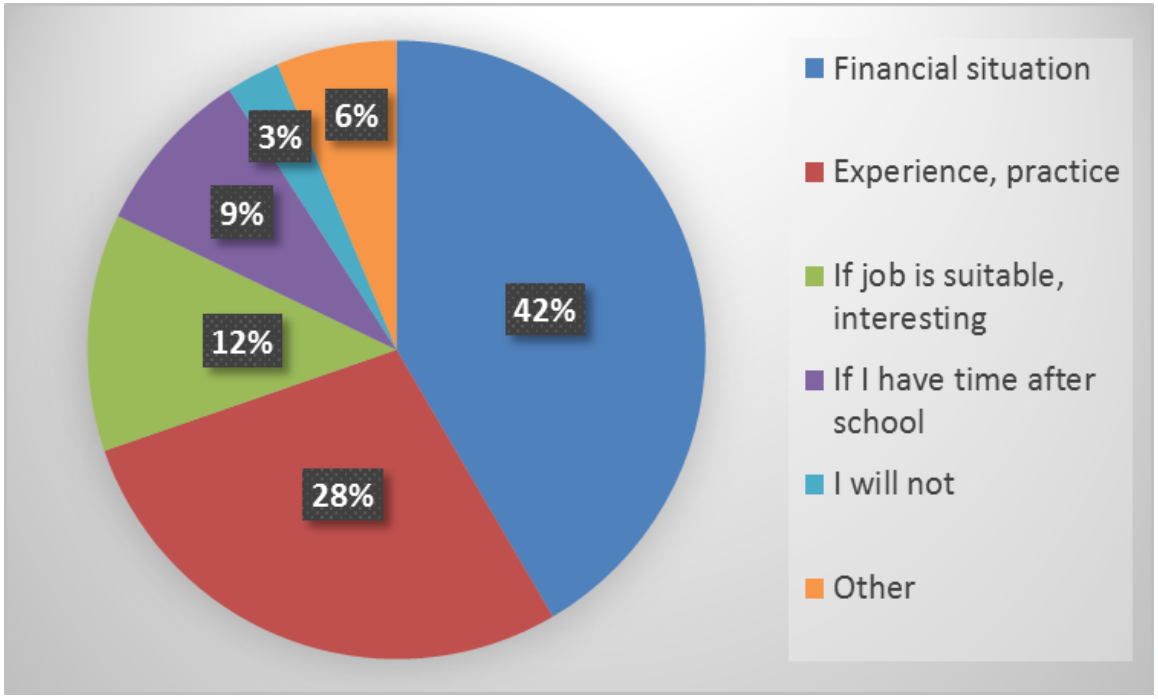


2013

2014

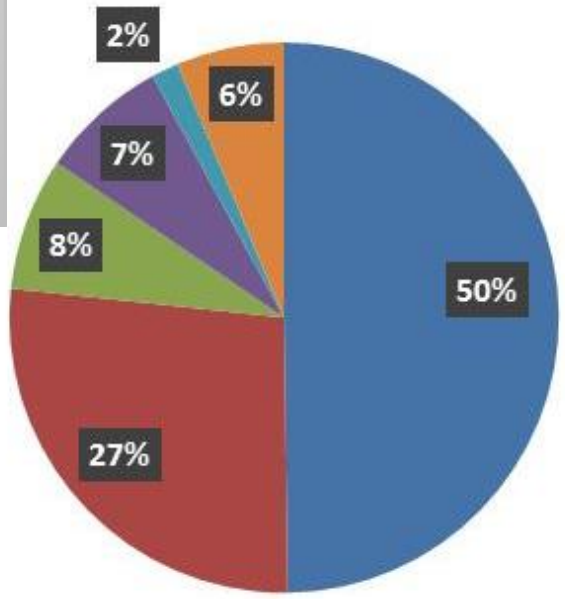


Under what conditions will students start working during their studies?



2013

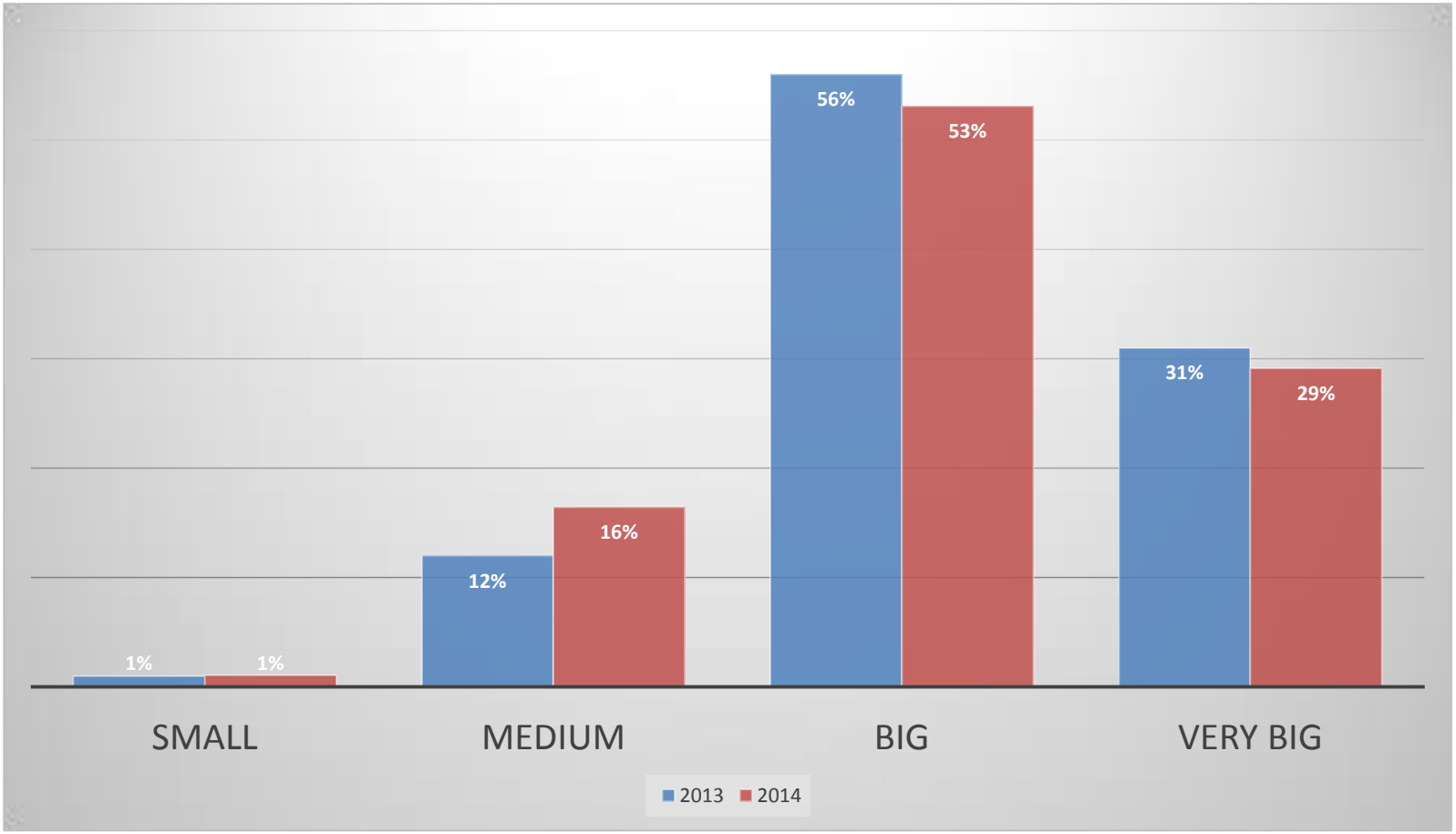
2014



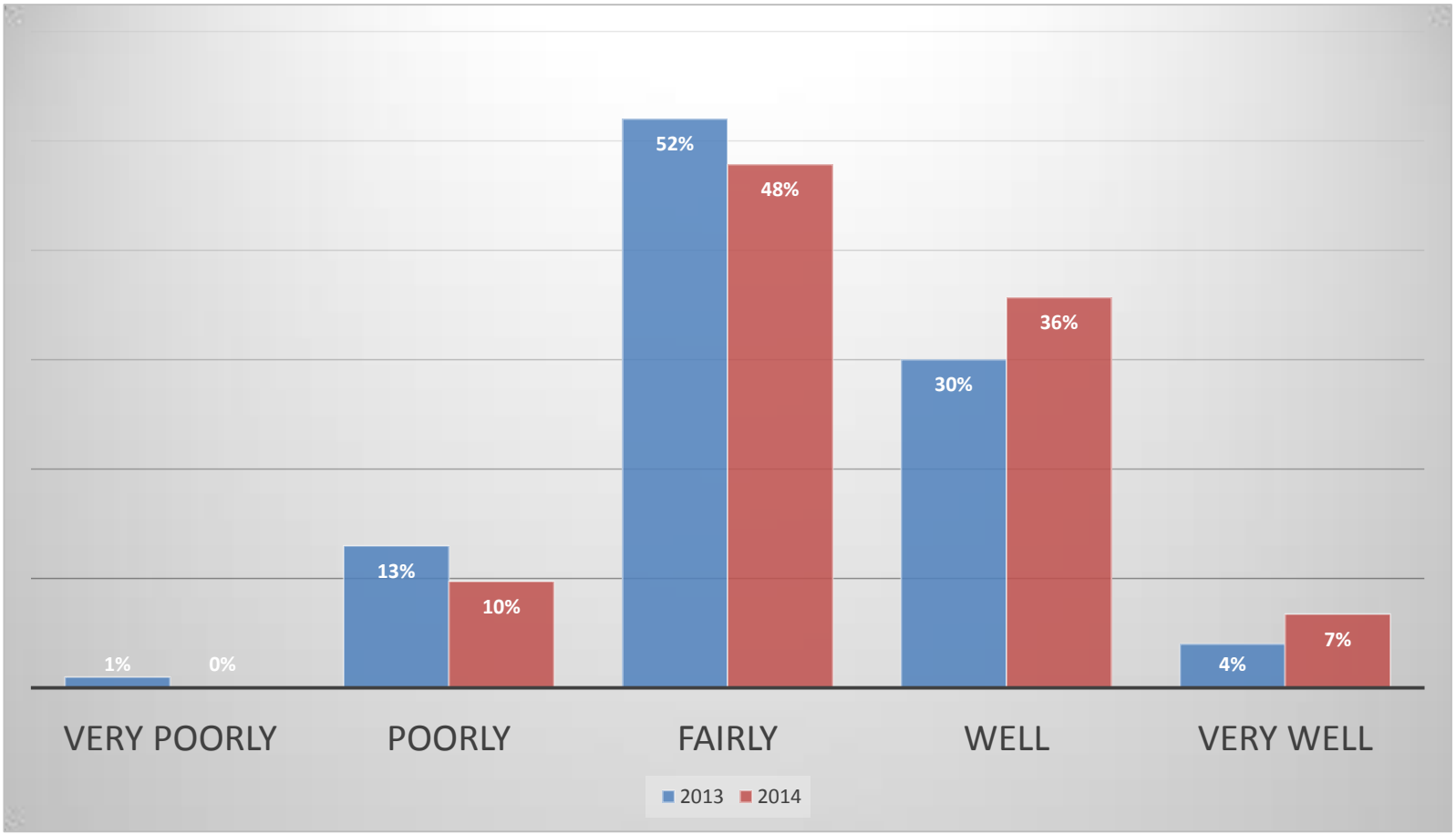
Data collection at the beginning of the third semester

- September and October
- 354 second year students:
  - 200 students from TUT
  - 131 students from UT
  - 41 students from EITC

How large is students' interest in ICT?



How informed are students about job opportunities in the ICT field?



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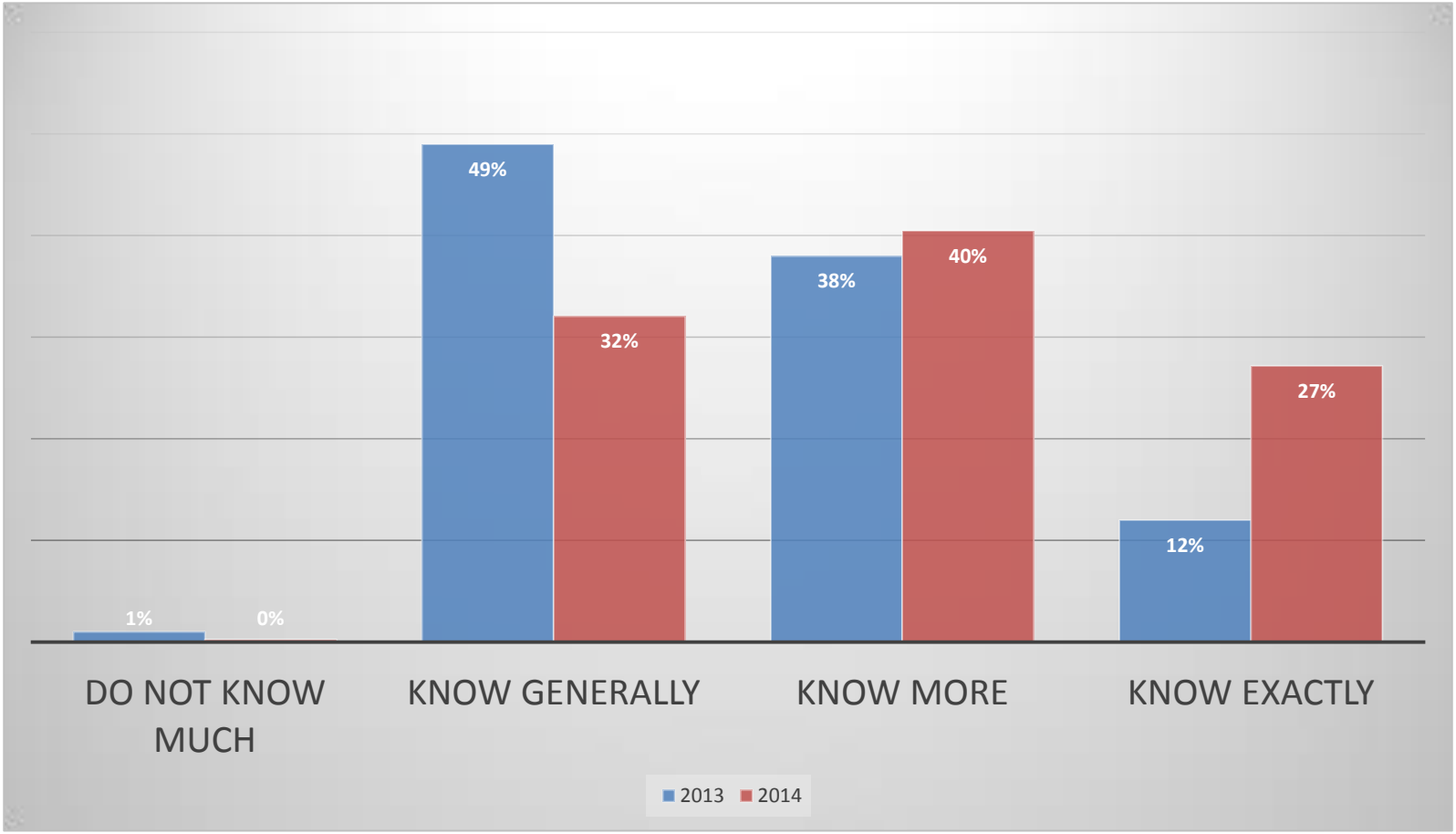
How informed are students about the curriculum they are studying?



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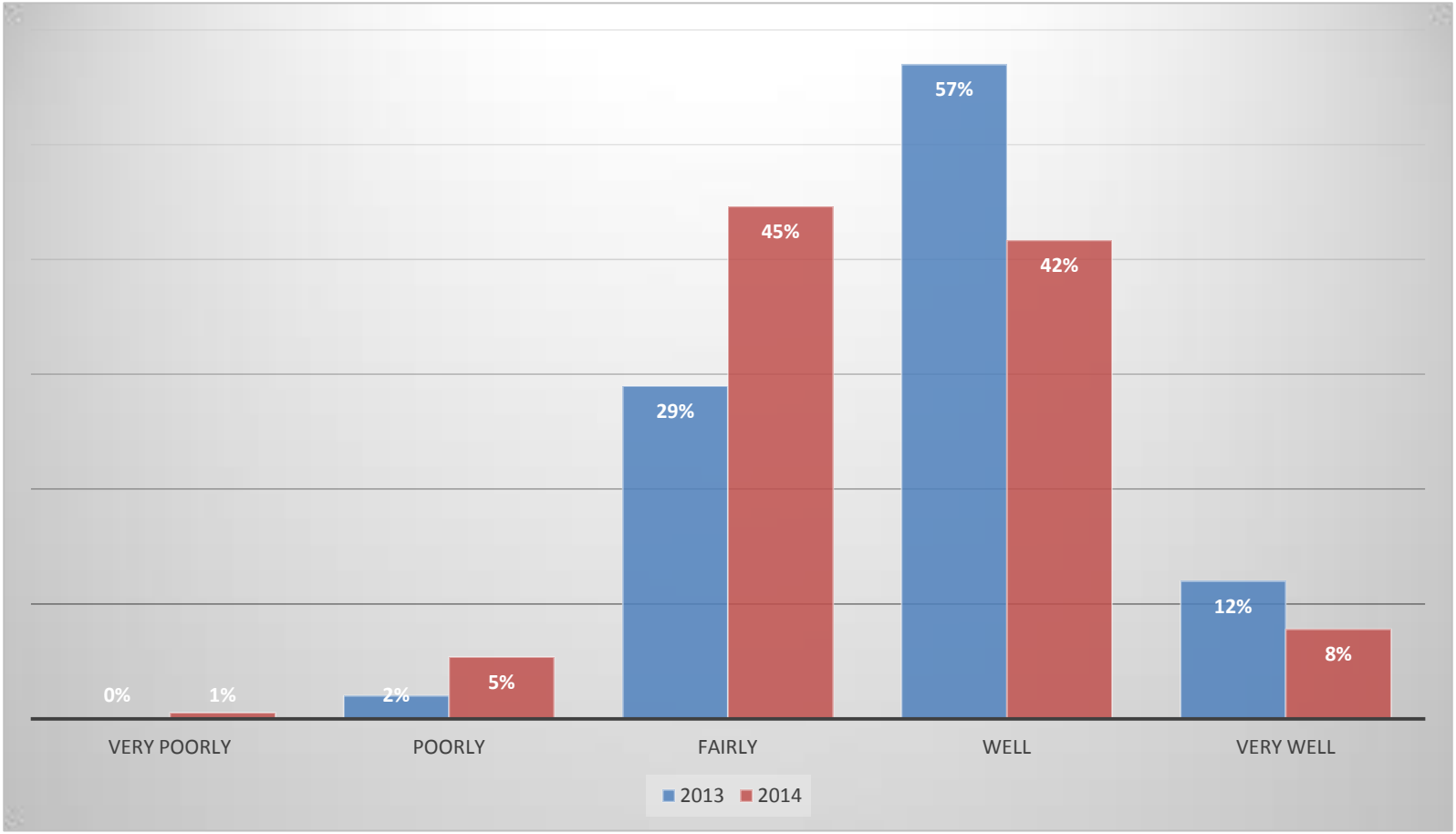
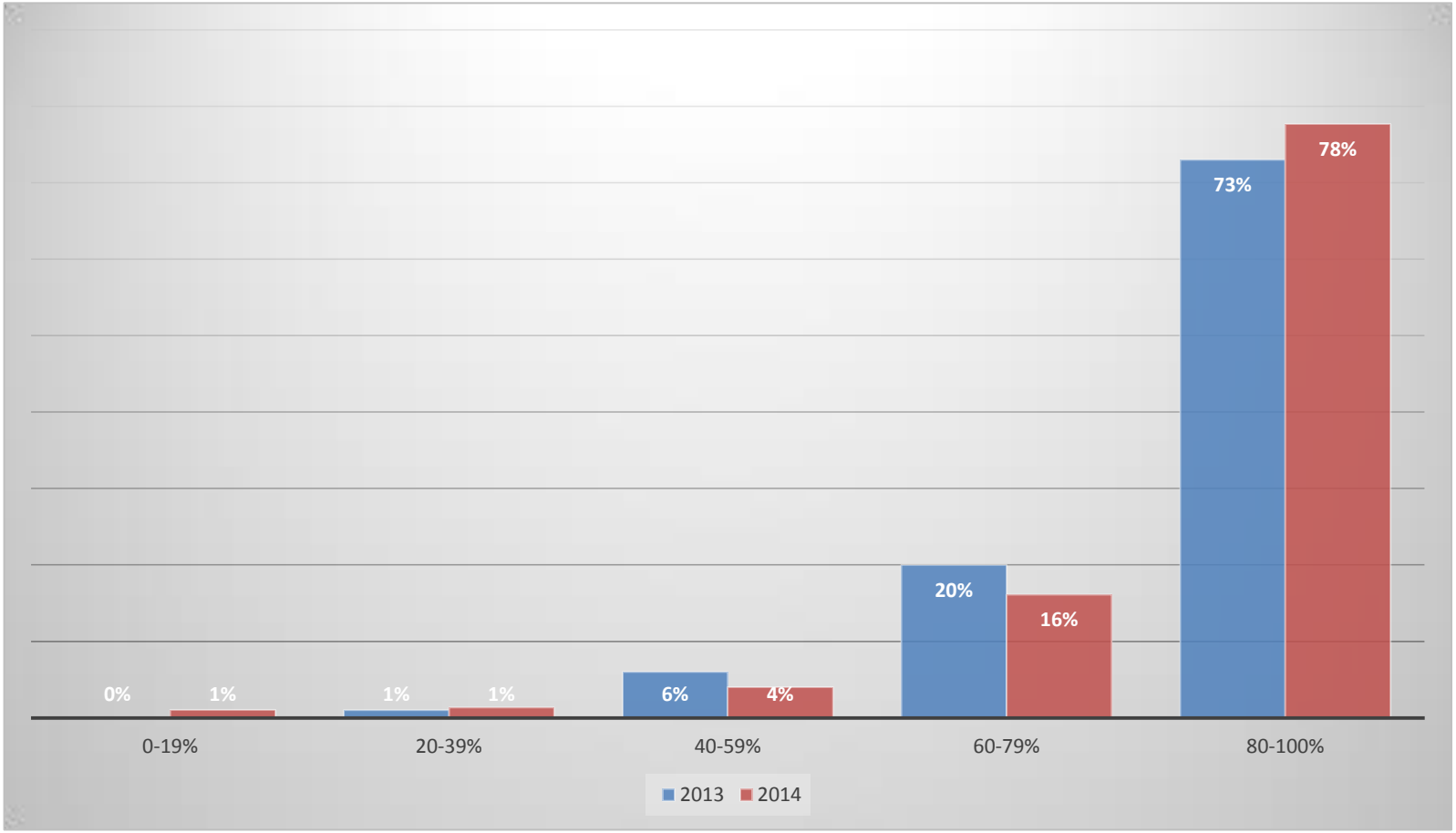
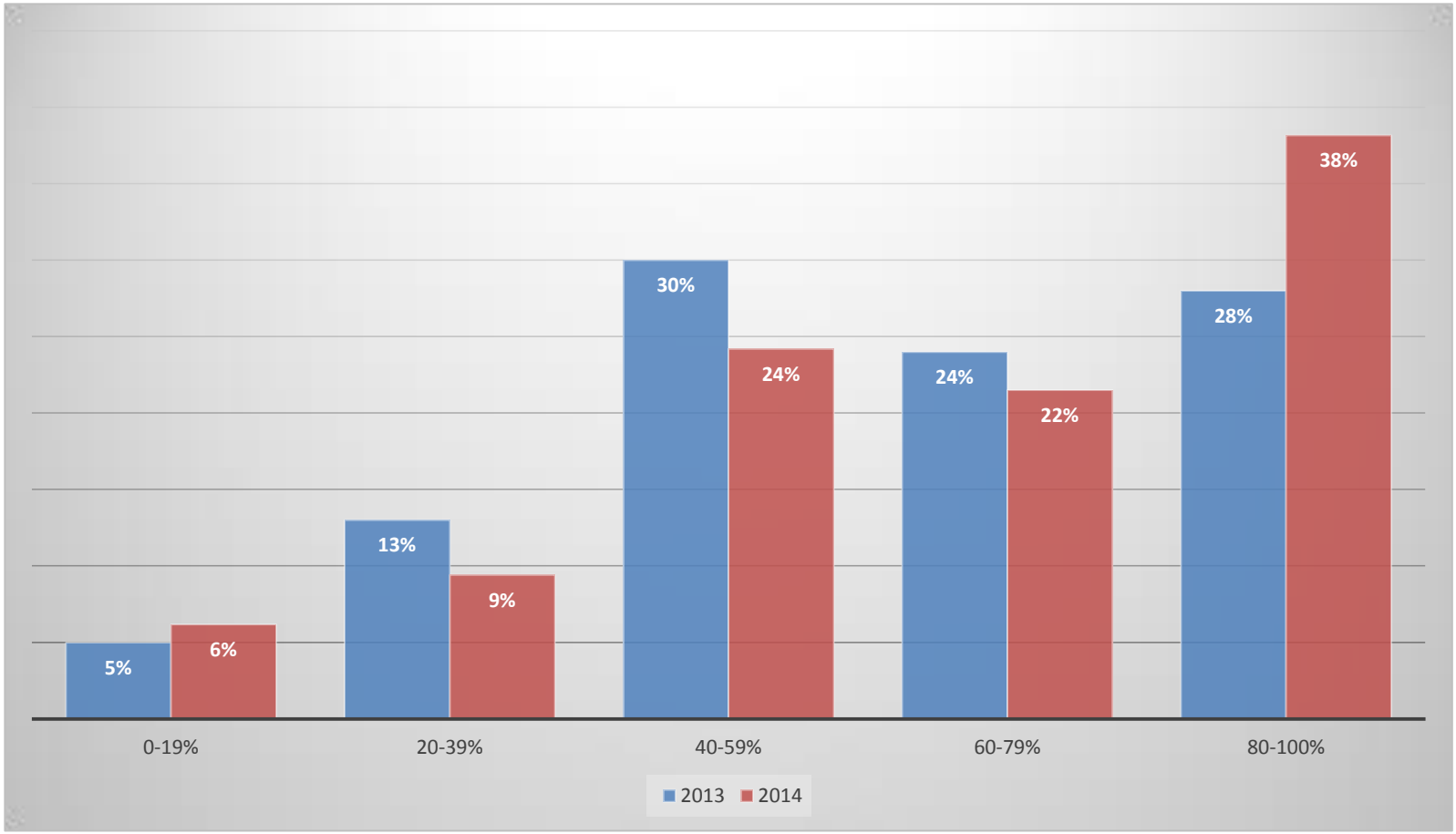
How well does the curriculum meet student expectations?



With what propability do students think they will finish their studies?



How large is the probability that students start working during studies?



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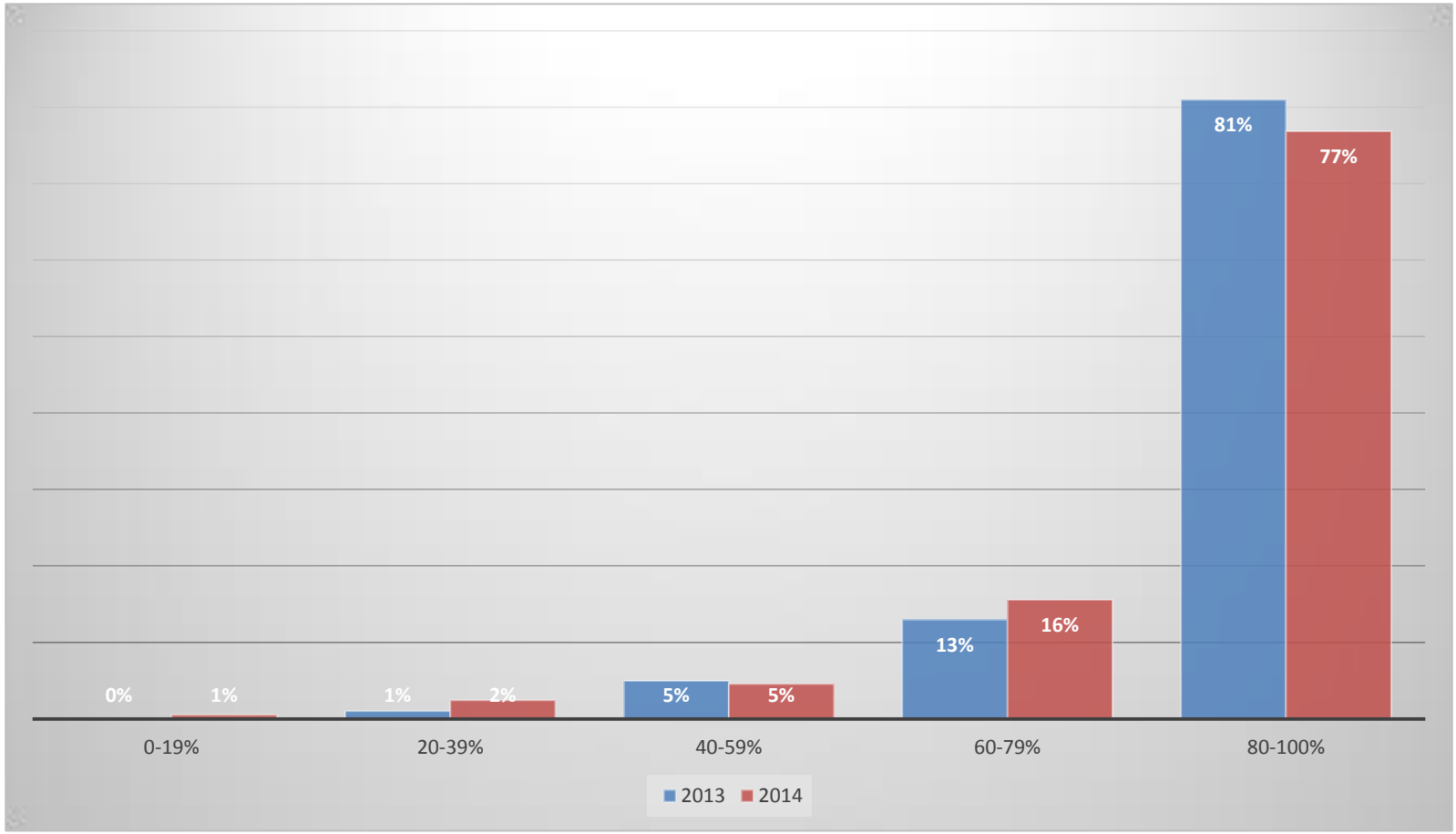
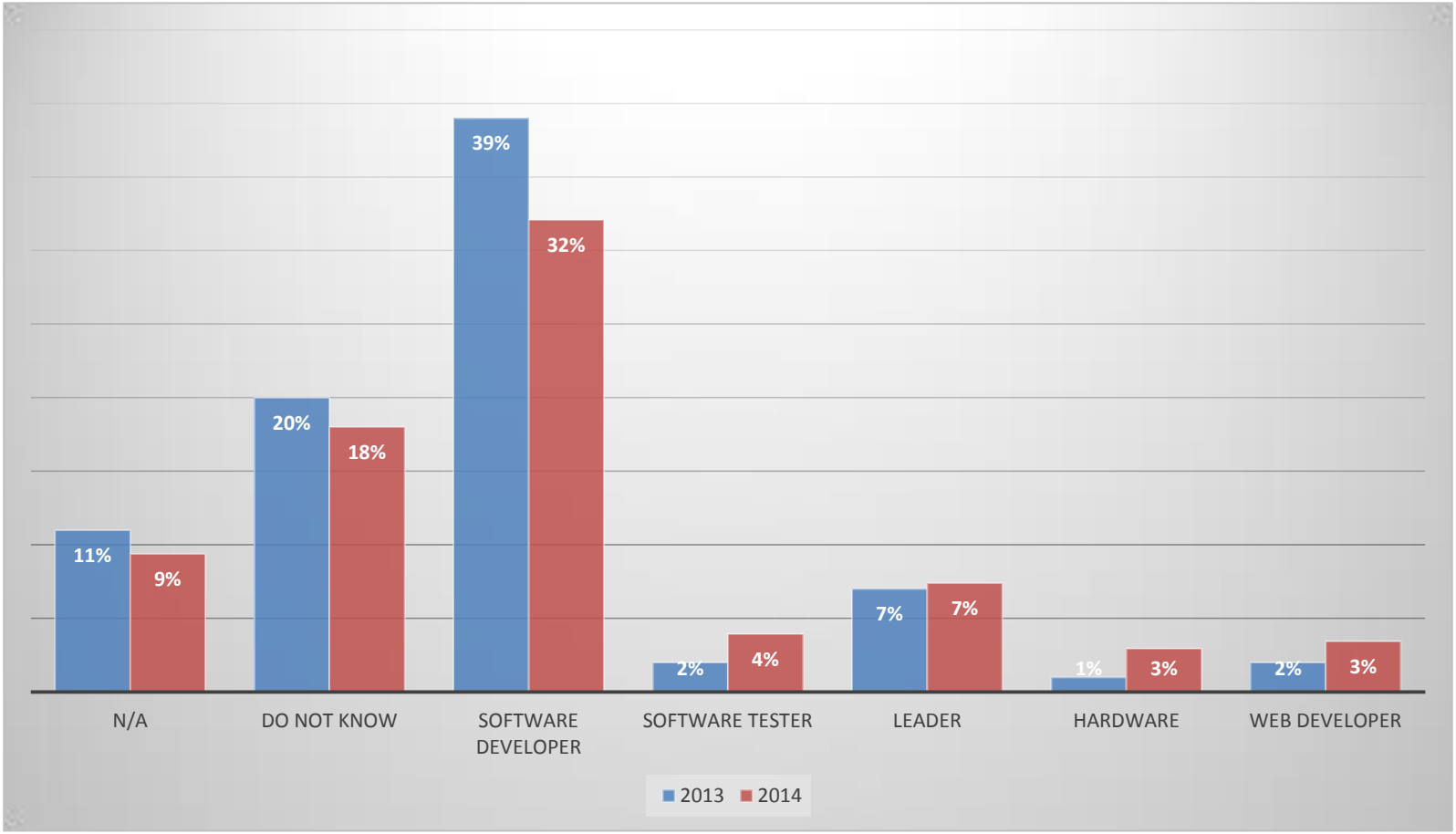


What kind of jobs do students want?



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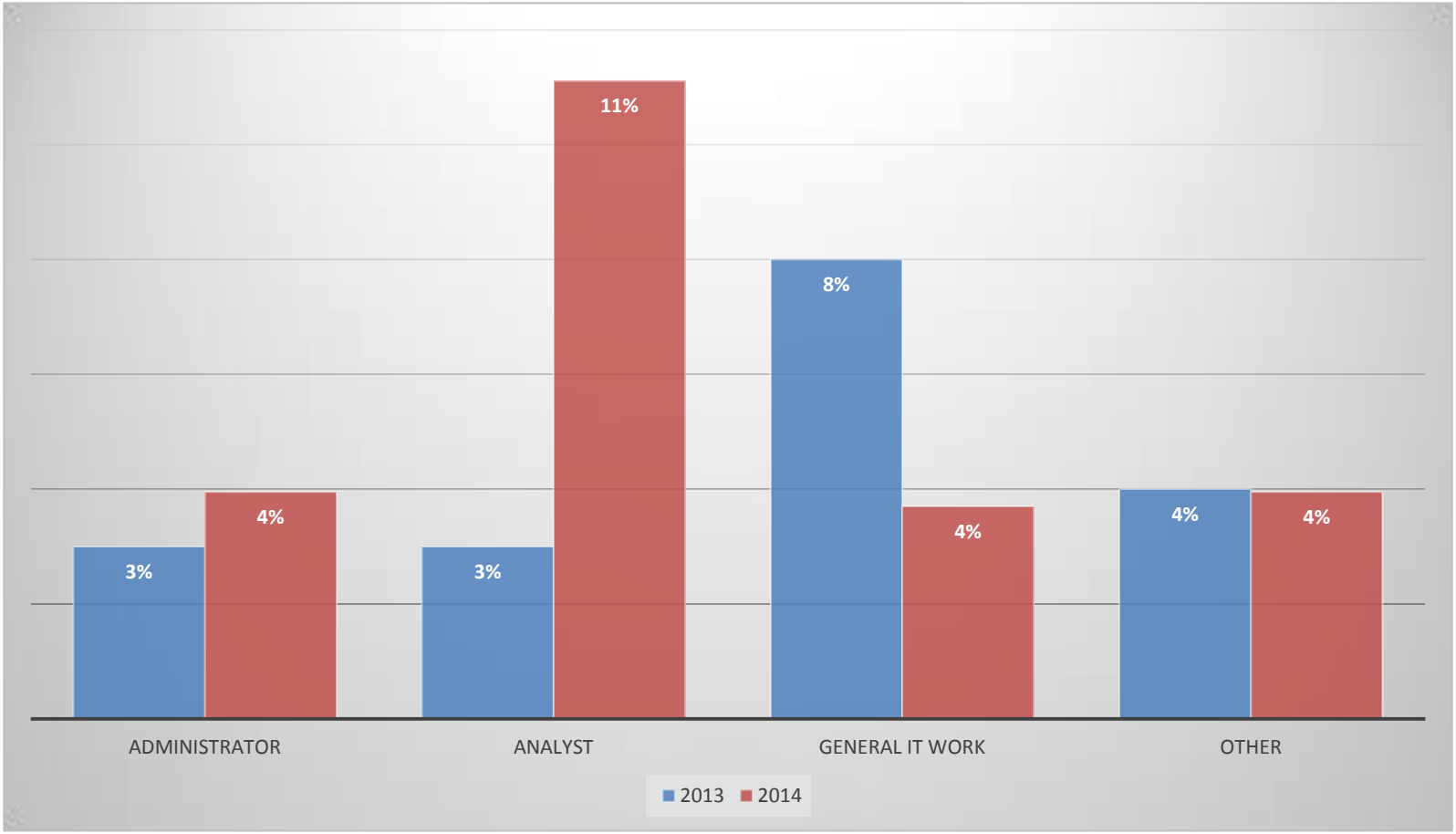

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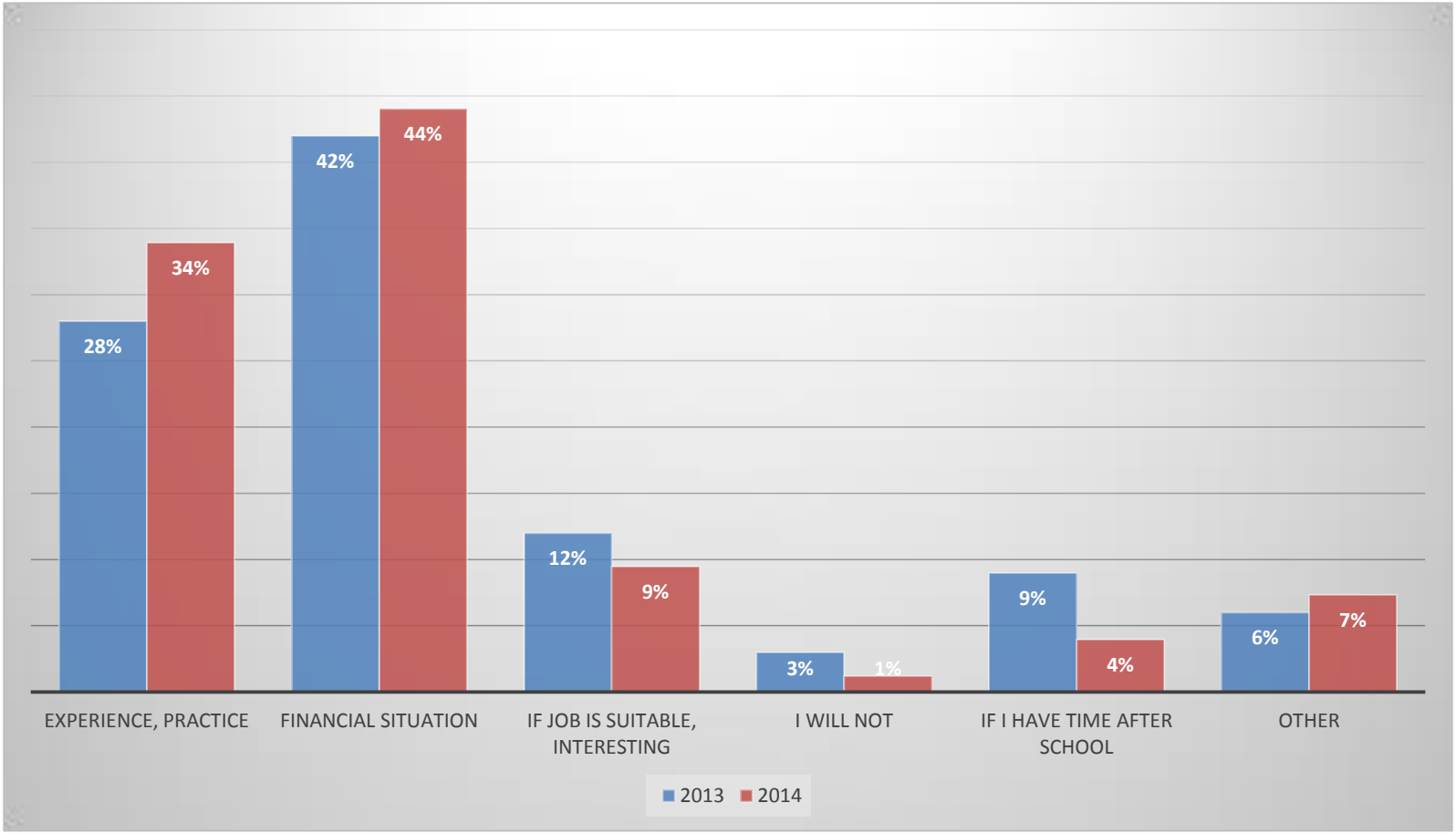
Under what conditions will students start working during their studies?



Thank you!

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