

prof. Zorana Luzanin, Applied statistics at UNS - from wishes to realization



To-do-list:

- 1 establishment of University Centre of Applied Statistics
- 2 realization of centre activities
 - education
 - research
 - consulting

CHALLENGE ACCEPTED

To-do-list:

- 1 establishment of University Centre of Applied Statistics
- 2 realization of centre activities
 - education
 - research
 - consulting

CHALLENGE ACCEPTED

To-do-list:

- 1 establishment of University Centre of Applied Statistics
- 2 realization of centre activities
 - education
 - research
 - consulting

CHALLENGE ACCEPTED

To-do-list:

- 1 establishment of University Centre of Applied Statistics
- 2 realization of centre activities
 - education
 - research
 - consulting

CHALLENGE ACCEPTED

To-do-list:

- 1 establishment of University Centre of Applied Statistics
- 2 realization of centre activities
 - education
 - research
 - consulting

CHALLENGE ACCEPTED

To-do-list:

- 1 establishment of University Centre of Applied Statistics
- 2 realization of centre activities
 - education
 - research
 - consulting

CHALLENGE ACCEPTED

To-do-list:

- 1 establishment of University Centre of Applied Statistics
- 2 *realization of centre activities*
 - education
 - research
 - consulting

CHALLENGE ACCEPTED

To-do-list:

- 1 establishment of University Centre of Applied Statistics
- 2 *realization of centre activities*
 - *education*
 - research
 - consulting

CHALLENGE ACCEPTED

Standard assumptions

- interested students
- adequate teaching strategy and teaching material
- functional workplace

Standard assumptions

- interested students
- adequate teaching strategy and teaching material
- functional workplace

Standard assumptions

- interested students
- adequate teaching strategy and teaching material
- functional workplace

Standard assumptions

- interested students
- adequate teaching strategy and teaching material
- functional workplace

Challenge No.1

Call for students

Master studies in Applied statistics

Requirements

- completed bachelor studies
- passed entering exam

Students target group

- ambitious
- hardworking
- necessary knowledge

Challenge No.1

Call for students

Master studies in Applied statistics

Requirements

- completed bachelor studies
- passed entering exam

Students target group

- ambitious
- hardworking
- necessary knowledge

Challenge No.1

Call for students

Master studies in Applied statistics

Requirements

- completed bachelor studies
- passed entering exam

Students target group

- ambitious
- hardworking
- necessary knowledge

Challenge No.1

Call for students

Master studies in Applied statistics

Requirements

- completed bachelor studies
- passed entering exam

Students target group

- ambitious
- hardworking
- necessary knowledge

How to attract students?

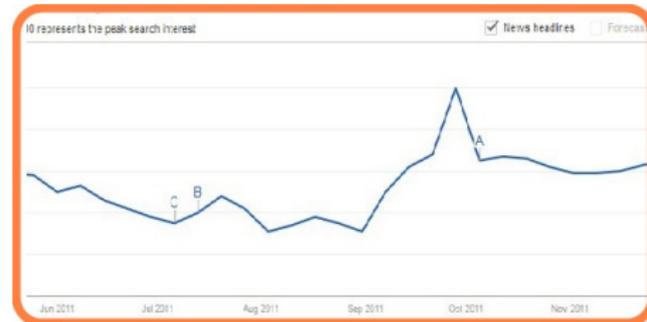
Challenge No.1

Advertising

Spreading the information:

- posters, leaflets
- media (newspapers)
- internet (website, social networks)

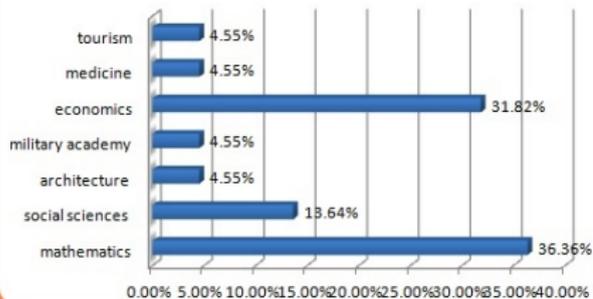
Searching of word “statistics” has grown up!



Some Statistics

Challenge No.2

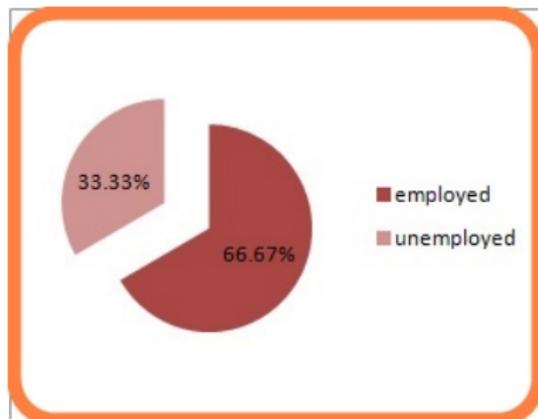
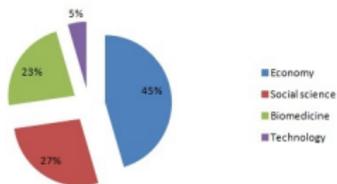
generation 2011/2012



Summary

- average age: 26
- master and PhD
- Serbia and Bosnia

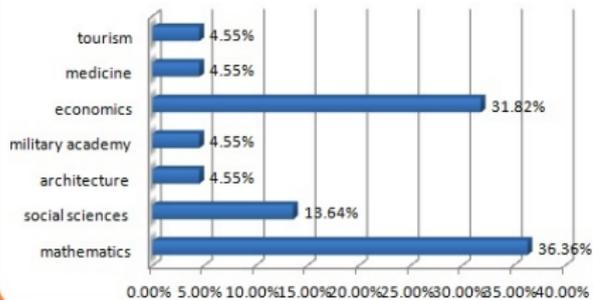
Selected modules - 2011/2012



Some Statistics

Challenge No.2

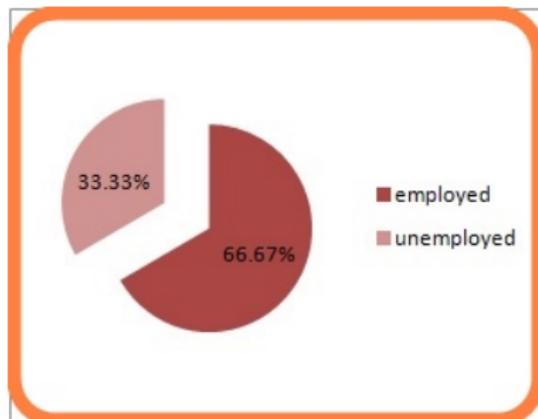
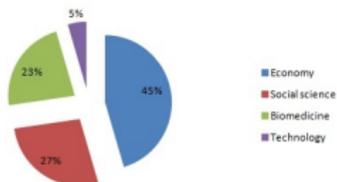
generation 2011/2012



Summary

- average age: 26
- master and PhD
- Serbia and Bosnia

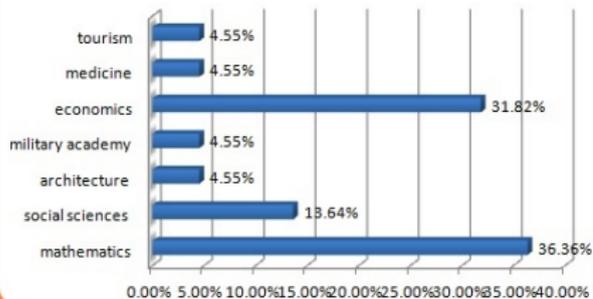
Selected modules - 2011/2012



Some Statistics

Challenge No.2

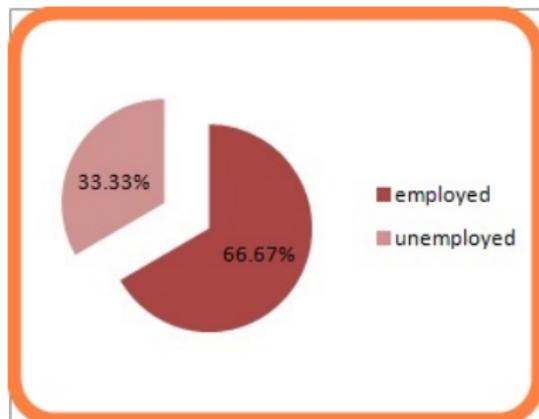
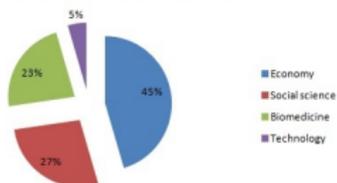
generation 2011/2012



Summary

- average age: 26
- master and PhD
- Serbia and Bosnia

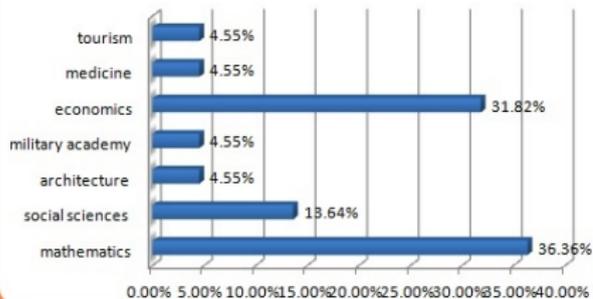
Selected modules - 2011/2012



Some Statistics

Challenge No.2

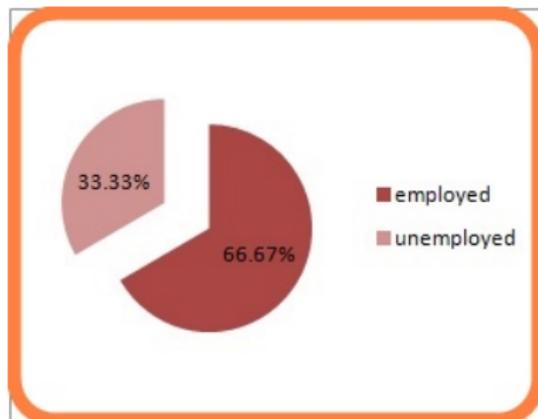
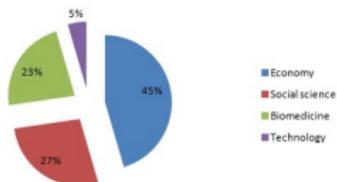
generation 2011/2012



Summary

- average age: 26
- master and PhD
- Serbia and Bosnia

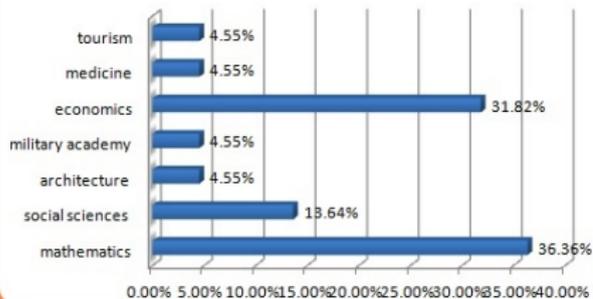
Selected modules - 2011/2012



Some Statistics

Challenge No.2

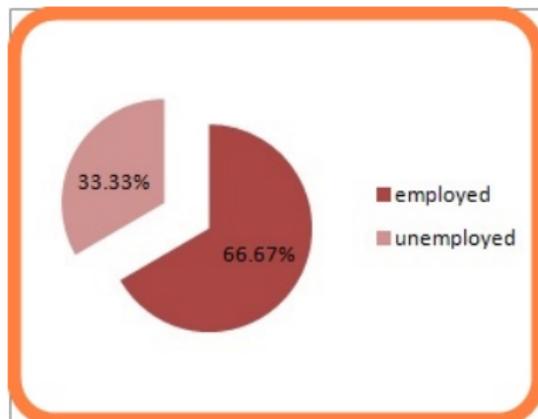
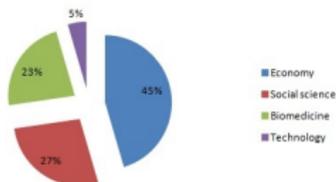
generation 2011/2012



Summary

- average age: 26
- master and PhD
- Serbia and Bosnia

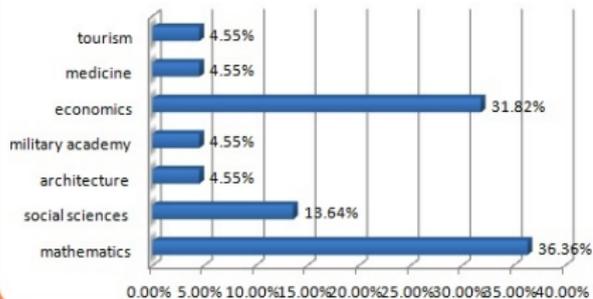
Selected modules - 2011/2012



Some Statistics

Challenge No.2

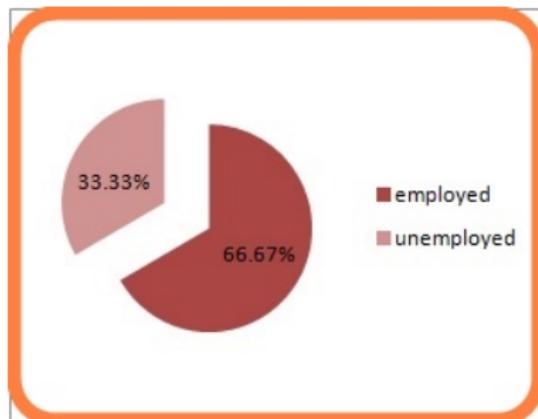
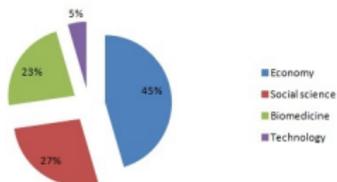
generation 2011/2012



Summary

- average age: 26
- master and PhD
- Serbia and Bosnia

Selected modules - 2011/2012



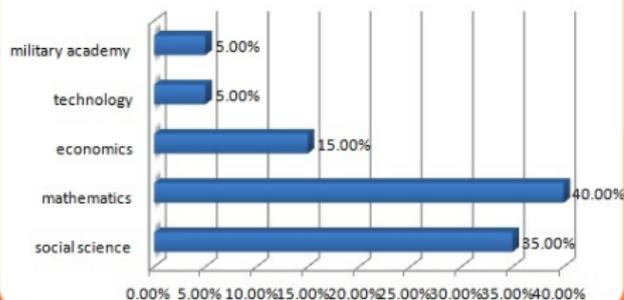
Some Statistics

Challenge No.2

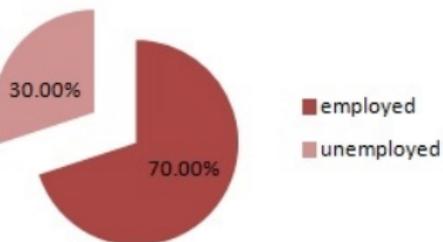
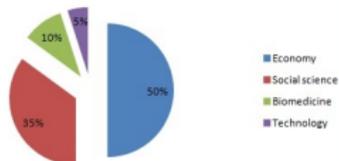
Summary

- average age: 27
- master and PhD
- Serbia and Bosnia

generation 2012/2013



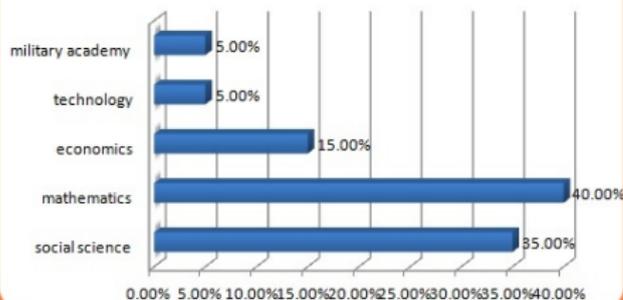
Desired modules - 2012/2013



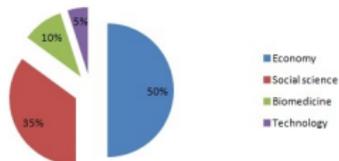
Some Statistics

Challenge No.2

generation 2012/2013

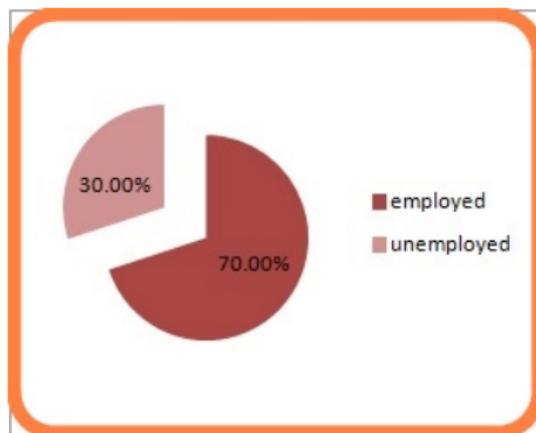


Desired modules - 2012/2013



Summary

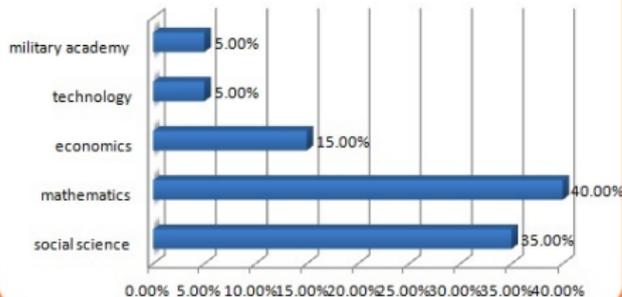
- average age: 27
- master and PhD
- Serbia and Bosnia



Some Statistics

Challenge No.2

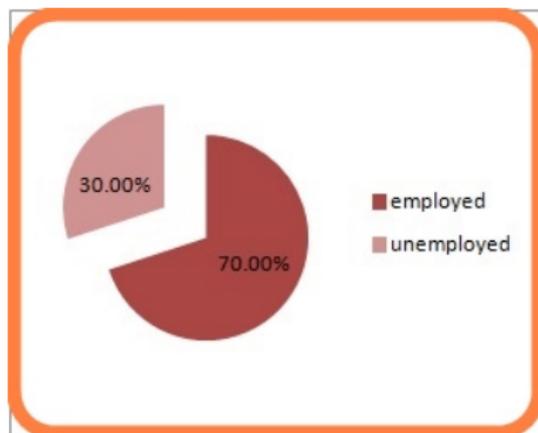
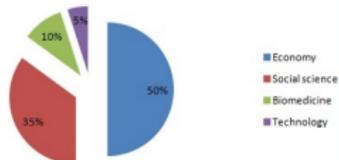
generation 2012/2013



Summary

- average age: 27
- master and PhD
- Serbia and Bosnia

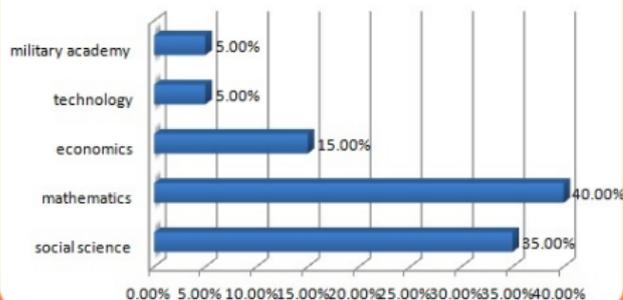
Desired modules - 2012/2013



Some Statistics

Challenge No.2

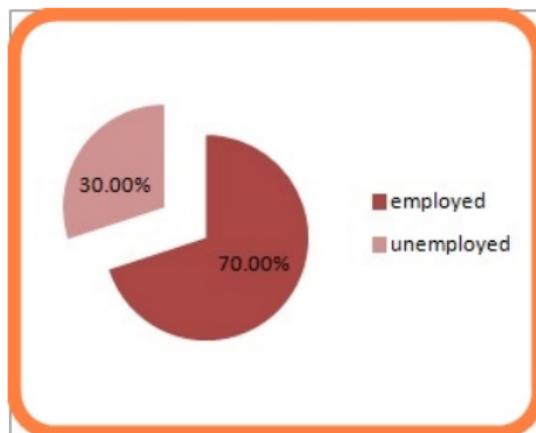
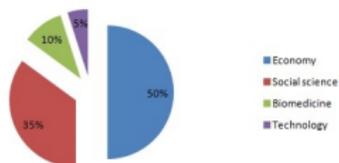
generation 2012/2013



Summary

- average age: 27
- master and PhD
- Serbia and Bosnia

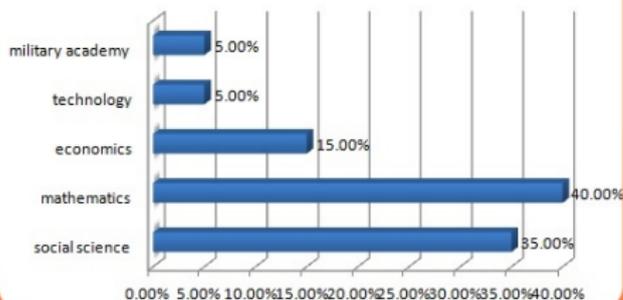
Desired modules - 2012/2013



Some Statistics

Challenge No.2

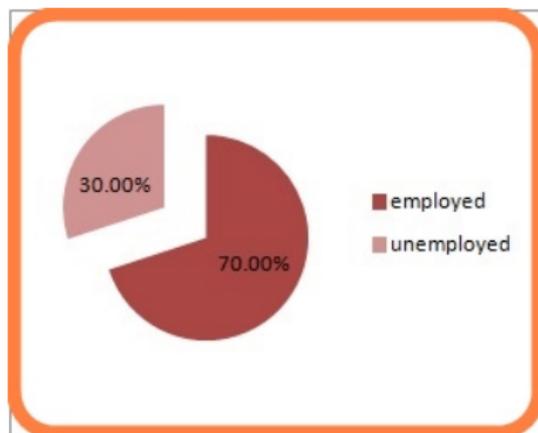
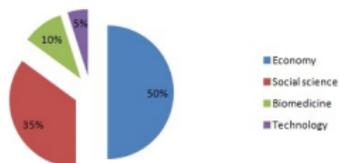
generation 2012/2013



Summary

- average age: 27
- master and PhD
- Serbia and Bosnia

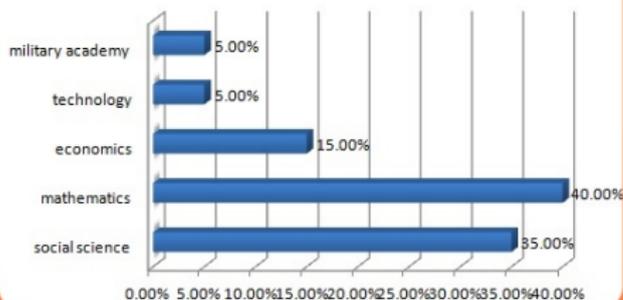
Desired modules - 2012/2013



Some Statistics

Challenge No.2

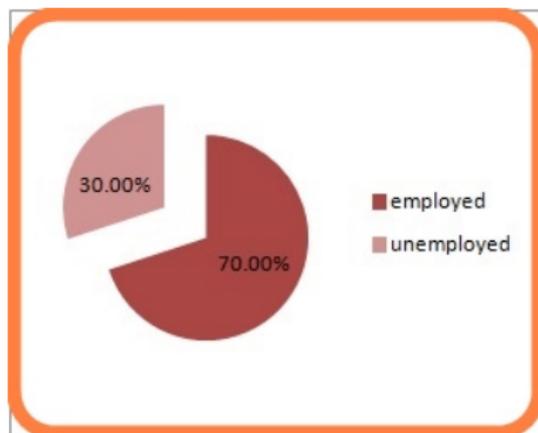
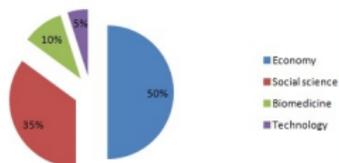
generation 2012/2013



Summary

- average age: 27
- master and PhD
- Serbia and Bosnia

Desired modules - 2012/2013



Some first observations

Challenge No.2

Benefits:

- Students have clearly defined goals.
- Students are highly motivated for learning.
- Students have basic competences and experience.

Shortcomings:

- Students have different study approach.
- Possible troubles with teaching materials.
- Students are mainly employed.

Some first observations

Challenge No.2

Benefits:

- Students have clearly defined goals.
- Students are highly motivated for learning.
- Students have basic competences and experience.

Shortcomings:

- Students have different study approach.
- Possible troubles with teaching materials.
- Students are mainly employed.

Some first experiences

Challenge No.2

Obligatory courses

- 1 Probability theory
- 2 Statistical software
- 3 Data collection methodology
- 4 Estimation & detection theory
- 5 Sampling theory
- 6 Official statistics
- 7 Linear models
- 8 Multivariate analysis
- 9 Academic skills

Elective courses

- 1 Linear Algebra & Calculus
- 2 Economics
- 3 Social medicine
- 4 Psychology

Some first experiences

Challenge No.2

Obligatory courses

- 1 Probability theory
- 2 Statistical software
- 3 *Academic skills*
- 4 Estimation & detection theory
- 5 Sampling theory
- 6 Official statistics
- 7 Linear models
- 8 Multivariate analysis
- 9 *Data collection methodology*

Elective courses

- 1 Linear Algebra & Calculus
- 2 Economics
- 3 Social medicine
- 4 Psychology

No project is too big, too small or too complex or too challenging!

Competences:

- computing and programming
- data analyzing
- choosing and applying statistical methods
- interpreting and presenting results

No project is too big, too small or too complex or too challenging!

Competences:

- computing and programming
- data analyzing
- choosing and applying statistical methods
- interpreting and presenting results

.....skills

- Problem solving
- Critical thinking
- Communicating statistics
- Collaborative learning



“The best way to learn is to do; the worst way to teach is to talk.”

Hidden motive

Break down prejudice: statisticians are doers not thinkers!

How to do it?

- examples, examples, examples
- group work assessment
- make it more interesting

Last but not the least..

Challenge No.3

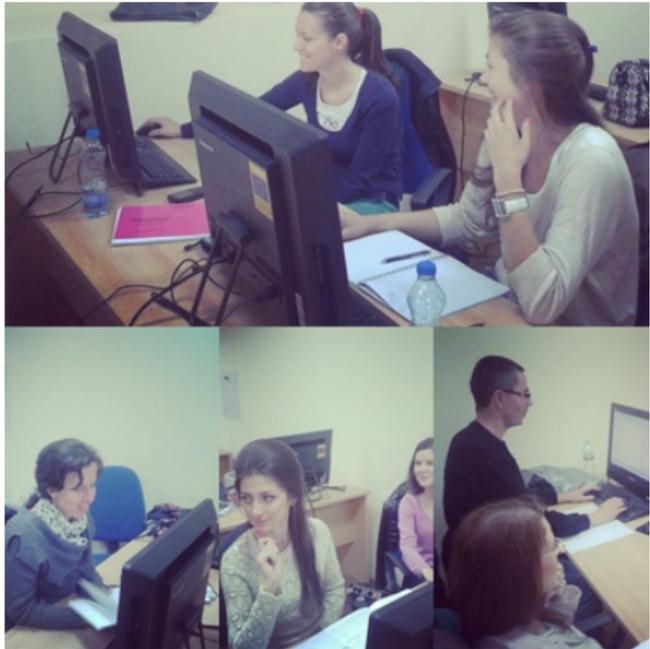
- computers
- software
- books



Last but not the least..

Challenge No.3

- computers
- software
- books



Thank you for your attention!

