

# Attending SE course in PUT

A student's experience  
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13<sup>th</sup> Workshop  
"Software Engineering Education and Reverse  
Engineering"  
**Bansko, Bulgaria**  
**26-31 August 2013**

## To be covered...

- Polytechnic University of Tirana
- SE course:
  - Bachelor Studies
  - Master Studies JCSE
- Impressions and Benefits
- Assignments and Teamwork
- Conclusions and Suggestions

## Polytechnic University of Tirana

- The only Polytechnic University in Albania.
- Second largest Higher Education Institute.
  - Average Enrollment ~ 10 000 Students per year.
  - Lectures in Native Language.
  - 6 Faculties, and 1 R&D Institution.
- Faculty of Information Technology.
  - Dep. of Computer Engineering
  - Dep. Of Electronics and Telecommunications.

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## SE Course in B.Sc.:

- Taught in **Native** Language.
- + **English** Literature Used.
- Essential Basic Intro to Software Engineering.
- + 3 hours a week for 14 weeks.
- Waterfall Model was introduced...but what if:

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## Waterfall Model: The point of no return!



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## SE Course in M.Sc.:

- + Taught in **English** Language.
- + **English** Literature/Slides.
- **Twice** as much enrolled students than before.
- Intensive Course for one week.
  - On average 5 hours per day.(excluding breaks)
- Not only SE topics:
  - + Lecturers introduced their university organization.
  - + Share Personal Experience on some topics.

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## 2013 Class Photo



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## Impressions and Benefits:

- Before JCSE:
  - Theoretical Software Development Guidelines.
  - One Design process Used: Waterfall Method

Junior SW Development Motto :

**“Software and cathedrals are much the same,  
first we build them, then we pray.”**

-Anonymous

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## How a Junior Programmer Develops a SW.



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## Impressions and Benefits (2):

- After JCSE:
  - + Theoretical knowledge is broaden.  
Examples and Materials from various books.  
Feedback based development,(V-Model)
  - + Slides delivered after each day.
  - + Practicing what we learned.  
3 out of the 4 Assignments were tool-based.

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## Assignments and Teamwork

- Teams of 5 members.
- 4 Assignments in total.
  1. Requirements Specification Review
  2. Functional Testing: CTE XL
  3. Structural Testing: SOTA Tool
  4. Software metrics: SOTA vs. CCCC tool.
- 4<sup>th</sup> Assignment , no live meetings.
  - + But we managed to carry on , by using [trello.com](http://trello.com)
  - No equivalent contribution , by team members.

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## Conclusion & Suggestions

- Enriching experience with the foreign professors.
- Overall, Colleagues/Mine Opinion: Very Satisfied
- Intensive Course not that productive:
  - Increase time-span to at least 2 weeks.
- All topics should be represented:
  - 15 presented / 24 possible. (Curious for the 9 left. 😊)

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- ❖ Prof. Elinda Kajo
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## Any Questions?

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