

### **Contact Information**



- Contact the lecturers: SURNAME@disi.unitn.it
  - Prof. Fabio MASSACCI
  - Dr. Federica PACI
  - Ms Katsyarina LABUNETS
- · See the course web site
  - https://securitylab.disi.unitn.it/doku.php?id=security\_engineering
  - Group web site → securitylab.disi.unitn.it
- Office hours
  - By appointments in class for Massacci and Paci, by email for Labunets

16/09/14

Massacci-Paci-Security Engineering

# **Technical Security Courses at UniTN**



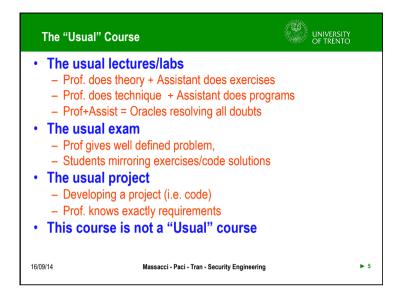
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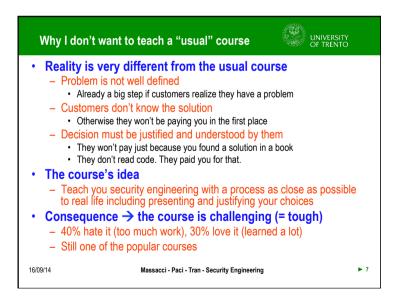
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- Security Engineering (Fall) 6 credits This course
  - Security Management, Security Design and Engineering
- · Network Security (Spring) 6 credits
  - Network Security and Security Protocols
- Applied Cryptography (Fall) 6 credits
  - Cryptography, Public Key Cryptography
- Software Security Testing (Spring) 6 credits
  - Reverse engineering, software testing, security testing
- This Course in in the UNITN Curriculum
  - Service Design and Engineering Depth Requirements
  - Security & Privacy (EIT) Depth Requirement
  - or any breadth requirement

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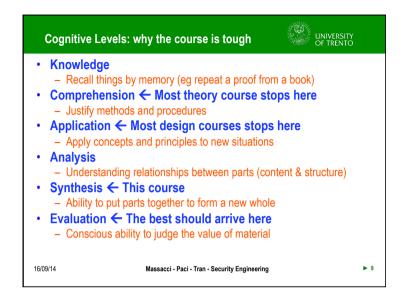
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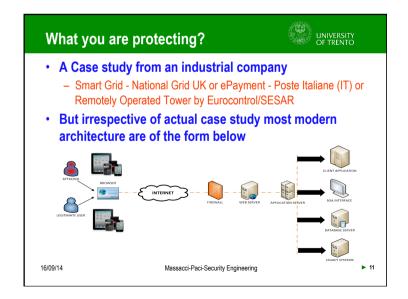




# Why I don't want to teach a "usual" course If you can only write programs →you're done for You must also be able to make decisions and communicate them to upper management Italian Ass. ICT Salary Survey (for 24-30 yrs old) Web Developer/ IT/Network Administrator – 21-26K€ Programmer/Analyst – 29-41K€ Sys Engineer/Architect – 31-44K€ Sw Project Leader/IS Manager – 47-78K€ CIO – 98K€/year So better write a management report...once



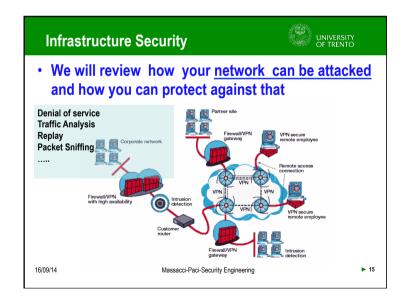
















# **Activity**



- Apply two methods for risk assessment CORAS and SecRAM to the case study scenario
- Cover three levels
  - · user/Database Security, Web Application Security, Network Security
- For every type of technology
  - Identify the security threats and security controls that mitigate the threats
  - Document the application of the methods and the results
- Report them
  - in written form by a short report
  - By making a presentation in class

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# **Course Logistics**



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- Basic course
  - 12 weeks of 4 hours of lectures
  - 2 weeks of 4 hours of students' presentations
- Practice work
  - Students' presentations
  - Students' intermediate reports
- Final Exam in January
  - Final report
  - Final Presentation (with a industry customer)

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# How to report your work: Report 1. Structure of the report 1. Target of Evaluation 2. Users Threats & Controls 3. Application's T&C 4. Infrastructure's T&C 2. Delivery 1. In installment 2. Download template from Web

### Grading



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## • Final report is the sum of the intermediate reports

- Final report determine the bulk of your vote
- Final presentation of the work is around 20%
  - This is given by an industry person who will review your threats and security controls for relevance and appropriateness
  - · His/her judgement is what counts

### Intermediate Deliveries

- You can ignore them and submit everything at the end.
  - · This is always your right as a student taking any course
  - · Statistics says you are not going to make the grade
- Intermediate reports are mandatory
- Intermediate presentations are optional

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# What you need to be aware of ...



- You will help us to evaluate CORAS and SecRAM with respect to
  - Actual efficiency
  - Actual effectiveness
  - Easy of use, usefulness, intention to use
- You will provide us feeback on the methods through
  - Post-Task Questionnaire
  - Individual Interviews
- · Honest feedback are important to us!!!

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# Rule of the game



- Real life is not built out of 2 hours classes spread across 14 weeks semester
  - Attending lectures is optional but well-advised
  - Delivering class' presentations is optional but well-advised
  - Delivering reports as scheduled is mandatory
  - Attending final exam is mandatory
- · On "I took this text from a collegue of mine"
  - Remember I have been a student myself, thinking "he is not going to find it" is not going to be easy
  - 2. If you are able to have people working for you and can sell their work as yours only as if they didn't existed, great, you'll be the next Steve Jobs
  - 3. In all other cases (statistics is against you on (1+2)) that's called plagiarism and is forbidden.
  - 4. You will fail the class and that's it.

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