Tecnologias de Segurança (ou Segurança Aplicada)

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Instructor

- Lectures
 - Prof. Ibéria Medeiros (imedeiros@di.fc.ul.pt)
 course respons.
 - Lecture times:
 - » Tuesday, 16h30-18h30, room 6.2.52
 - » Tuesday, 18h30-20h00, room 6.2.52
 - Student contact hours:
 - » Thursday, 15h00-16h00, room 6.3.25

Communication

- Web Page:
 - <u>https://moodle.fc.ul.pt</u>
 - official and current information of the course
- News group:
 - available at moodle.fc.ul.pt
 - to be used by students and instructors for posting and discussion about all aspects of general interest
- □ Individual instructor email address:
 - use only when none of the above applies
- Student contact hours

Topics for the Semester

- □ Cryptography a deeper look into selected algorithms/protocols
- Authentication and Key Distribution
- □ Wireless Communication security in Personal/Local/Metro./Wide Networks
- □ RFID Radio Frequency Identification security
- Network security focus on IPsec
- □ Transport security focus on SSL/TLS
- Electronic Payment Systems & Smart Cards Security
- Email security and Privacy Issues

<u>Prior knowledge</u>: should have attended a course in introductory security; and related subjects like networks, operating systems and distributed systems.

Bibliography

■ William Stallings, Cryptography and Network Security, 6th Edition, 2014 (there is a new edition, the 7th, that came out in 2016)

Selected papers and other documents.

- Some other books:
 - Madjid Nakhjiri, Mahsa Nakhjiri, AAA and Network Security for Mobile Access: Radius,
 Diameter, EAP, PKI and IP Mobility
 - Selim Aissi, et al, Security for Mobile Networks and Platforms (Artech House Universal Personal Communications)
 - Frank Thornton, Chris Lanthem, RFID Security
 - Donal O'Mahony, et al, Electronic Payment Systems for E-Commerce: Second Edition
 - C. Kaufman, R. Perlman, M. Speciner, Network Security: Private Communication in a Public World (Second Edition)

Grading

- Main components of the evaluation:
 - 40% Project (includes participation in classes)
 - 10% Paper presentation (includes participation in discussions)
 - 50% Final exam
- Notes
 - There will be one project in two phases maybe related to the implementation of a cyber-range!
 - Projects and presentations are done in groups of 3 students
 - Dates for the projects are already available at the web site and there are no extensions
 - There is a minimum grade of 10 for both components of the evaluation!!!