Imprendi 4.0 - Tuscan Start Up Academy 4.0
Corso Cybersecurity
Programma edizione 2021

**Modulo 1 (2 h) - Prof. Rocco De Nicola**
- Introduction to Cybersecurity;
- Confidentiality, Integrity, Authenticity.

**Modulo 2 (4 h) - Prof. Gabriele Costa**
- Social Engineering;
- Application Security;
- Malware Analysis;
- Access Control.

**Modulo 3 (4 h) - Dr. Letterio Galletta**
- Introduction to cryptography;
- Shared key and public key encryption;
- Message Authentication Techniques (Hashing);
- Digital signature;
- Certification Infrastructures (PKI and X.509);

**Modulo 4 (10 h) - Dr. Simone Soderi**
- Networks fundamentals:
  - Network models, LAN/WAN, Network devices, Network protocols.
- Networks security concepts:
- Networks protection:
  - Network perimeter security, NIPS/NIDS, VPN, Switch - Router security;
- Networks penetration:
  - Information gathering, scanning, enumeration
- Security protocols:
  - SSL, TLS, HTTPS, SFTP
- Digital Identity, Privacy and Regulations:
  - SPID, GDPR.
- EU Network and Information Security (NIS) directive
- Case studies:
  - Railway signaling network security;
  - Automotive network security: CAN bus.
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