

Aula virtual 18:30-21:30

Evaluación ordinaria/extraordinaria 18:30-21:30

No.	Date	Category	Theory	Practice
1	01/04/2025	Crypto	Intro personal, security, lecture CyberSec pillars definitions Crypto history	
2	02/04/2025		Symetric Encryption	Lab: Python AES
3	03/04/2025		Message Integrity Autenticated encryption	Lab: Python hashing Lab: Docker images hash
	04/04/2025 05/04/2025 06/04/2025			
4	07/04/2025		Public Key Encryption	Lab: OpenSSL
5	08/04/2025		Public Key Encryption	Lab: Signing docker images on github
6	09/04/2025		Key derivation Key exchange	Lab: Python Diffie Hellman
7	10/04/2025		Digital Certificates PgP, GPG o CryptoLoop Law 59/2003 Digital Signature	Lab: secure git commits with openPGP Lab: Kali sslscan Test exam for crypto
	11/04/2025 12/04/2025 13/04/2025			
8	14/04/2025		Identification of PKI components Certified Authority and Elements Self signed certificates	Lab: Self signed certificates based on OpenSSL
9	15/04/2025		Attribute certificate fields, including description of their common uses and relationship with digital certificates. Certificate Policy and Certification Practice Statement (CPS).	Lab: Knowing Let's encrypt

10	16/04/2025	PKI	Certificate Revocation List (CRL)	
	17/04/2025			
	18/04/2025			
	19/04/2025			
	20/04/2025			
	21/04/2025			
11	22/04/2025		Certificate Signing Request (CSR) operation	Lab: PKI standalone based on Windows 2019
			Privilege Management Infrastructure (PMI)	Test exam for pki
12	23/04/2025		Identity and Access Management Systems	
13	24/04/2025			Lab: Configure and IAM system using Keycloak
	25/04/2025	Secure communications		
	26/04/2025			
	27/04/2025			
14	28/04/2025		Web Security Model	Lab: Use have I been pwned?
			Web Attack	Lab: Secure password using bcrypt JS
			Web Defense	
15	29/04/2025		HTTPS Goals and pitfalls	Lab: Hacking introduction based on Juice shop and Kali Linux
16	30/04/2025		SSH	Lab: Securing a SSH Server
			SSL	
	01/05/2025			
	02/05/2025			
	03/05/2025			
	04/05/2025			
17	05/04/2025		SSL VPN	Lab: SSL VPN
			IPSEC VPN	Lab: Intro to packet Tracer
18	06/05/2025		IPSEC VPN	Lab: Packet Tracer IPsec VPN
			Cipher tunneling	Test exam for secure comm
	07/05/2025			
	08/05/2025			
	09/05/2025			
19	10/05/2025		Final exam	

11/05/2025		
20	12/05/2025	Retake final exam