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<https://cs.ut.ee/en>



Detailed 15 hands-on technical lab materials available in Estonian language:

<https://courses.cs.ut.ee/2022/turve/spring/Main/Praktikumid>

Andmeturve / Cyber Security bachelor course curriculum

<https://ois2.ut.ee/#/courses/LTAT.06.002/version/8378444e-0623-5e6e-1644-df37dda220a4/details>

CTF Tech Portal (Free Estonian made online CTF environment) <https://www.ctftech.com/>

5 USD programmable USB device for hardware security examples: <https://hackest.org/usb/>

LTAT.06.002 Cyber Security hands-on labs – courses.cs.ut.ee

How to attack? - Hacking	How to defend? – Securing systems
Enter Linux machine without password (<i>edit grub</i>)	Crypting data in Linux (<i>veracrypt</i>)
Enter Windows machine and access data (<i>edit SAM, sticky keys 5xSHIFT</i>)	Crypting Windows system disk and data level encryption (<i>Bitlocker</i>)
Sending "fake" e-mail with false names (<i>telnet mail.ut.ee 25</i>)	Secure (signed and crypted) e-mail sending PGP and Gmail
Testing common passwords to access (login) webpages (<i>Owasp ZAP proxy , parooli räsi</i>)	Password manager and using secure passwords (<i>KeePass, haveibeenpwned.com</i>)
Network redirecting (<i>Man In the Middle attack, ARP spoofing</i>) Real world user/password leaking (<i>SSH MITM</i>)	Secure communications , machine-machine authentication with certificate (<i>RootCA, usercertificate, fingerprinting</i>)
Cookie session hijacking (how to login without password), <i>cookie stealing</i>	Administrator can do anything in computer, main user in computer should not have admin rights
Fake webpages and web redirecting (ARP spoofing)	How to verify if webpage is legit (certificates)
Open ports scanning (firewall)	<i>Local Port Forwarding (LPF) ja Remote Port Forwarding (RPF)</i>
How malicious software	Searching for malware (<i>autoruns, Process Explorer</i>)
<i>Kali + metasploit framework</i> semi-automated network attacks against non-updated systems	Examples of importance of updating operating-system Configuring <i>Firewall</i> to protect against network attacks
Creating a malicious file (software)	Testing antivirus software (<i>virustotal.com malware analysis</i>)
Forensics, how to eliminate traces to your activities?	How people get caught, every action leaves traces!

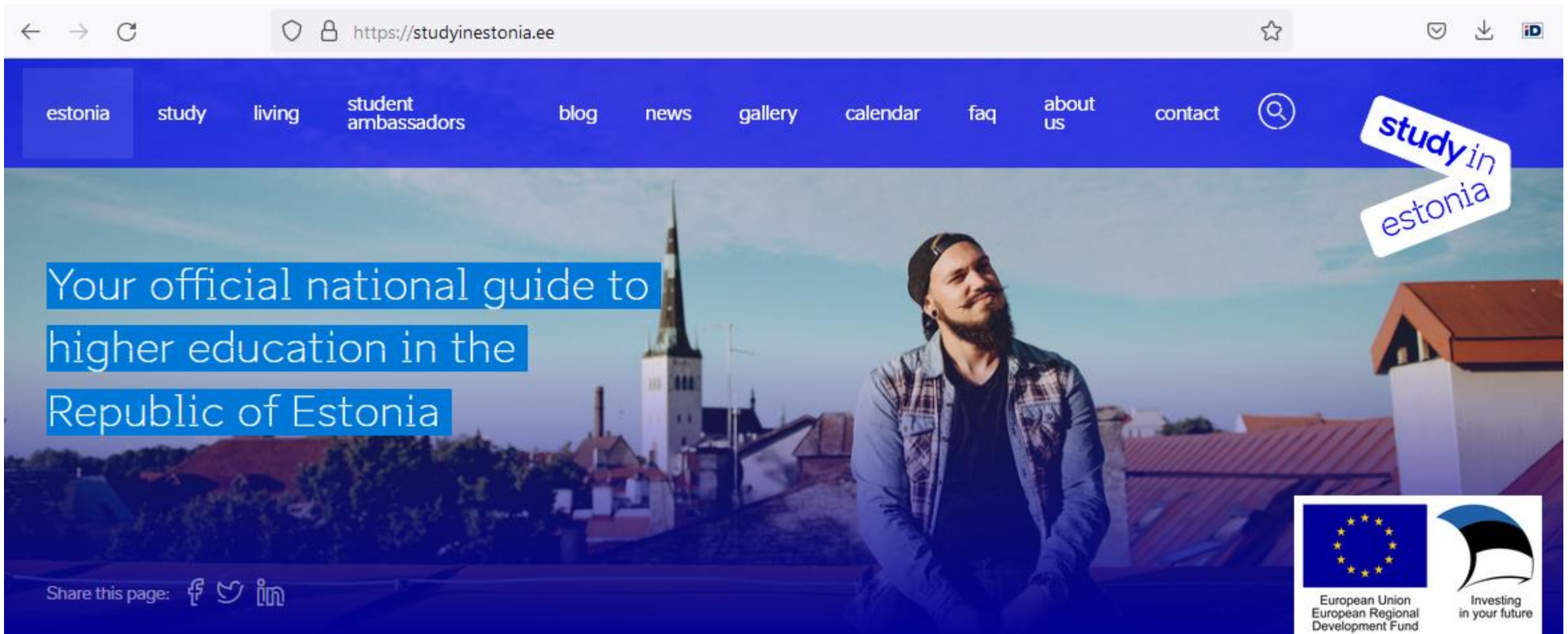
Cyber Battle of Estonia 2021 example

https://www.youtube.com/channel/UCWC3OnFPo3JhvSojSG_UCPw/videos



Study In Estonia

- <https://studyinestonia.ee/>
- **Your official national guide to higher education in the Republic of Estonia**



The image shows a screenshot of the website <https://studyinestonia.ee/>. The browser's address bar shows the URL. The website has a blue header with a navigation menu containing the following items: estonia, study, living, student ambassadors, blog, news, gallery, calendar, faq, about us, and contact. A search icon is located to the right of the menu. A white sticker with the text "study in estonia" is placed on the right side of the header. The main content area features a background image of a man with a beard and a cap sitting on a rooftop, looking towards the camera. In the background, there are buildings and a church spire. Overlaid on the image is the text: "Your official national guide to higher education in the Republic of Estonia". At the bottom left, there are social media sharing icons for Facebook, Twitter, and LinkedIn. At the bottom right, there are logos for the European Union European Regional Development Fund and the Estonian government, with the tagline "Investing in your future".