

Topics for the field of study – Information Technologies



1. Hardware in PC cases, types of cases
2. Input devices
3. Output devices
4. Persistent data storages and RAID
5. Operating systems and their attributes
6. Programming languages and their applications
7. Cloud computing
8. Network and network topology
9. Data transmission, list wires and wireless connections
10. Cybersecurity and data protection
11. Ethical hacking and penetration testing
12. Digital Identity and Authentication (how is digital identity verified and protected online – authentication methods incl. passwords, two-factor authentication, biometrics)
13. Artificial Intelligence, ethics and privacy
14. Internet of Things
15. Augmented reality and Virtual reality
16. Wearable technology (smartwatches, fitness trackers, smart glasses, future trends)
17. Virtual Collaboration Tools (how tools like Zoom, Microsoft Teams are used for remote work and collaboration)
18. Digital literacy and online safety
19. The impact of Social Media Algorithms
20. The history of the Internet
21. IT in entertainment (special effects, animation, streaming services and the technology behind platforms)