

The cyber defence field of study at Põltsamaa Coeducational Gymnasium

Janel Palm and Ats Teppan

Põltsamaa Coeducational Gymnasium

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Põltsamaa Coeducational Gymnasium

- Põltsamaa Coeducational Gymnasium is a municipal School in Jõgeva County.
- 98 teachers and 704 students (181 in the gymnasium).
- 55 students are enrolled in the cyber defence programme:
 - 23 students in the 10th grade (8 girls, 15 boys)
 - ✓ 15 students in the 11th grade (17 boys)
 - ✓ 17 students in the 12th grade (1 girl, 16 boys)



Objective of the project

- Students acquire the principles of a contemporary digital lifestyle.
- Students are aware of the threats in cyberspace.
- Students act lawfully and ethically in cyberspace.
- Students gain knowledge and practical experiences in the cyber security field.
- Students gain personal cyber crime prevention skills.
- Students themselves inform their community on basic cyber security.
- Students continue studies in higher education.

Raising awareness

- The skills necessary to prevent becoming the victim of a cyber-crime.
- How digital services work and their weaknesses.
- The legal and the illegal.
- The ethical and the unethical.
- The value of privacy and identity.
- Rights and responsibilities.
- Students as “CARRIERS” of cyber defence awareness.

The cyber defence curriculum

Four cyber defence courses (35 h each):

- Information society
- Information technology (the basics of safe networking)
- Digital security and cryptography
- Introduction to mechatronics (UAV)

A school exam in networking to obtain a Mikrotik MTCNA certificate.

Project innovation

- No other Estonian or European comprehensive school taught cyber defence (2015).
- The curriculum became the basis of a national cyber defense elective course.
- “Deed of the Year in Education” in 2016.

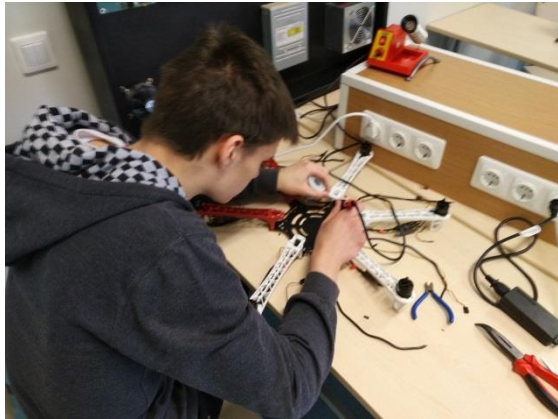


Partners

- ✓ Estonian Atlantic Treaty Association
- ✓ Estonian Information System Authority
- ✓ NATO Cooperative Cyber Defence Centre of Excellence
- ✓ National Cyber Defense League
- ✓ Institute of Information Sciences at the University of Tartu
- ✓ National Defence League Jõgeva Unit
- ✓ Center for Communication and Informationsecurity Research and Development
- ✓ Santa Monica Networks
- ✓ The e-Estonia Showroom



November 9, 2015 – key partners signed the cooperation agreement



Outcome

- Drop-out rate nearly zero.
- Students like the practical approach.
- Interesting guest lecturers and training visits.
- Parents are satisfied and supportive.
- Compiled syllabus for four specific courses.
- Noticeable decrease of cyber bullying.
- 20% of the students who enrolled in 2017 are from outside Põltsamaa.
- 9 MikroTik certificates received via the 2017 school exam.

Contacts

Põltsamaa Coeducational Gymnasium

Veski 5, Põltsamaa 48106 Estonia

Tel: +372 77 51 175

info@poltsamaa.edu.ee