



Co-funded by the
Erasmus+ Programme
of the European Union



ISSES – Information Security Services
Education in Serbia

Supported by the Erasmus+ Capacity Building in the
field of Higher Education (CBHE) grant
N° 586474-EPP-1-2017-1-RS-EPPKA2-CBHE-JP

PROJECT PROGRESS REPORT #2

*Information Security Services Education in
Serbia (ISSES)*

University of Nis, Nis (Serbia)

October 29th, 2018

ISSES 2017-2020
Novi Sad, Serbia

Project Overview



- **Title:** Information Security Services Education in Serbia
- **Acronym:** ISSES
- **Project start:** October 15th, 2017
- **Planned project closure:** October 14th, 2020
- **Overall budget:** 806,405.00 EUR
- **Project goals:** develop 3 MSc programs, 13 new/updated courses and 7 laboratories in information security



Information Security Services Education in Serbia (ISSES)

MANAGEMENT STRUCTURE



Work Packages

- WP1 – Preparation (UNS – Lendak): course & lab development plans
- WP2 – Curriculum development (UNS – Lendak): 13 new/updated courses
- WP3 – Lab development (UNI – Rancic): 4 designs & 6 implementations
- WP4 – Education programs (UB – Tartalja/Simic): 3 new MSc programs in Novi Sad, Belgrade & Subotica
- WP5 – Quality plan (Polimi – Zanero)
- WP6 – D&E (UB – Tartalja)
- WP7 – Project Management (UNS – Lendak, UB – Tartalja)

Steering Committee (SC)



- Levente Buttyan, CrySys/BME
- Miroslav Baca, FOI
- Viktor Varga, UT
- Dragoljub Zivkovic, ICUN
- Dejan Simic, UB/FON
- Zarko Stanisavljevic, UB/ETF
- Igor Fuestner, VTS
- Imre Lendak, UNS
- Stefano Zanero, Polimi
- Dejan Rancic, UNI



Advisory Board (AB)

- Not formally set up
- One of the issues identified by EACEA
- Originally nominated colleagues:
 - Elias Kyriakides (University of Cyprus, Cyprus)
 - Frank Kargl (University of Ulm, Germany)
 - Thomas Brandstetter (St. Pölte University of Applied Sciences, Austria)

- Additional ideas:
 - Somebody from Serbia, from the other Erasmus+ CBHE team
 - Additional names from our network
 - Further discussion during the Steering Committee meeting



Quality Board

- Stefano Zanero (Polimi), leads the QB
- Stevan Gostojic (UNS), member
- Pinter Robert (VTS), member
- Dragan Stojanovic (UNI), member
- Tamas Holczer (CrySys), member
- Markus Schatten (FOI), member
- Viktor Varga (UT), member
- Pavle Vuletic (UB), member

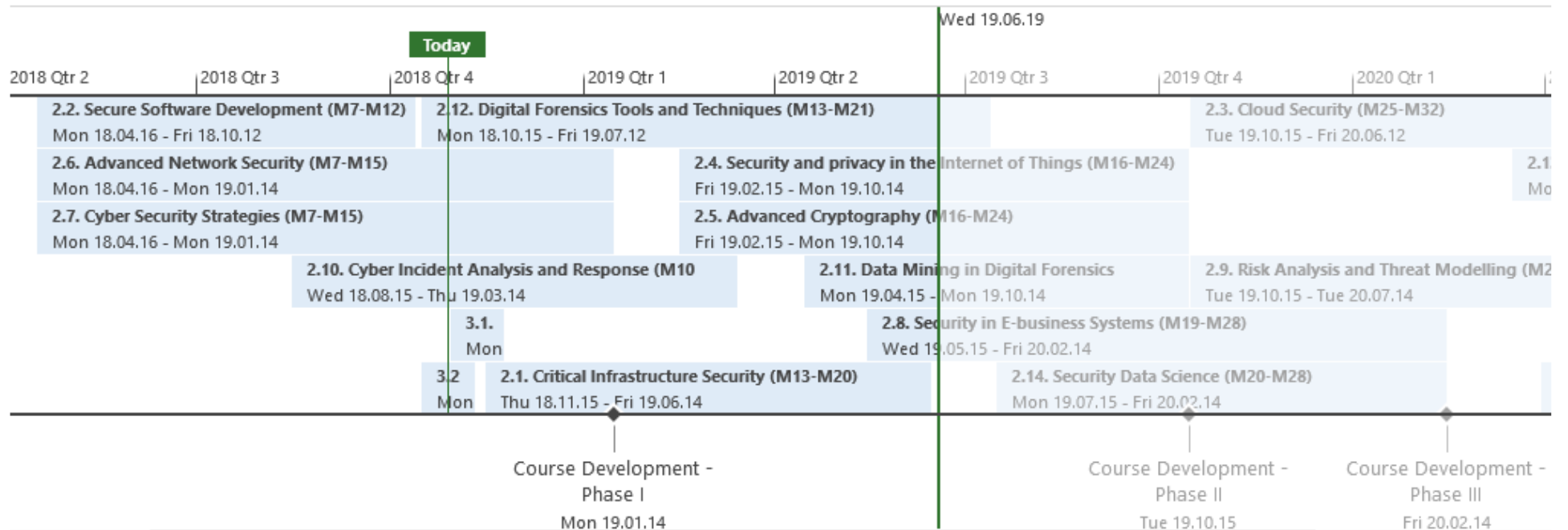
Information Security Services Education in Serbia (ISSES)

TASKS STATUS

WP1 Preparation

- 1.1 Baseline Curricula report – **DONE**
 - Missing details about courses & programs at Singidunum, Belgrade Metropolitan
- 1.2 Repository of Information Security Concepts (RISC) – **IN PROGRESS** (~30%)
 - In progress courses (see in WP2) covered: 2.2, 2.6
 - Courses in preparation: 2.7
 - Additional courses covered: 2.1, 2.8
- 1.3 Course Development Plan (CDP) – **DONE**
 - All 13 courses covered – version 1.4 before the SC
 - One additional course (UNS & UNI): Security Data Science
- 1.4 Lab Development Plan (LDP) – **DONE**
 - EACEA requested more detailed plans → our design in WP3

WP2 Course dev timeline (slice)



WP2 Curriculum Development



- Phase I: Courses in progress
 - 2.2. Secure Software Development (M7-M12) – UNS & CrySys
 - 2.6. Advanced Network Security (M7-M15) – UB/ETF
 - 2.7. Cyber Security Strategies (M7-M15) – UB/FON & CrySys
- Phase II: Courses starting
 - 2.1. Critical Infrastructure Security (M13-M20) – UNS & CrySys & Polimi
 - 2.10. Cyber Incident Analysis and Response (M10-M17) – UB/FON – UB/FON
 - 2.5. Advanced Cryptography (M16-M24) – UNS, UB & CrySys
 - 2.4. Security and privacy in the Internet of Things (M16-M24) – UNI, VTS, FOI & CrySys

WP3 Lab development (UNI)

Code	Description	Deadline
3.1	Lab Design: Critical Infrastructure Security Laboratory (CIS Lab)	M13
3.2	Lab Design: Digital Forensics Laboratory (DF Lab)	M13
3.3	Lab Design: Network Security Laboratory (NS Lab)	M13
3.4	Lab Design: Cloud Security Laboratory (CS Lab)	M14
3.5	Hybrid CIS, CS and NS Lab implementation (P1)	M14-M24
3.6	Hybrid NS and Crypto Lab Implementation (P5)	M14-M21
3.7	NS Lab implementation (P6)	M15-M21
3.8	DF Lab Implementation (P5)	M14-M24
3.9	DF Lab Implementation (P6)	M25-M30
3.10	DF Lab Implementation (P1)	M31-M36
3.11	Hybrid CS and IoT Lab Implementation (P9)	M15-M20

WP4 Program development – 1



- In the process of adding new elective courses in the Applied software engineering MSc program (Lendak)
 - 2.5. Advanced Cryptography
 - 2.6. Advanced Network and Systems Security
 - 2.2. Secure Software Development
 - 2.12. Digital Forensics Tools & Technologies
 - 2.1. Critical Infrastructure Security (Lendak)
 - 2.14. Security Data Science

- We have management approval to start an InfoSec module in the 2019/2020 school year (on the 1-year MSc)

- We are pushing to add these courses regardless of the accreditation process which is started (again)

WP4 Program development – 2



- In the process of adding new elective courses in the Software engineering BSc & MSc program (Sladic & Gostojic)
 - 2.2. Secure Software Development – BSc level (Sladic)
 - 2.12. Digital Forensics Tools & Technologies (Gostojic)
 - 2.4. IoT Security & Privacy (Sladic)
 - 2.6. Advanced Network and Systems Security (Sladic)
- Additional courses:
 - Identity management
 - Information Security Management Systems (ISMS)
- These courses will be added through the re-started accreditation process

WP5 Quality Management

Code	Description	Deadline	Status
5.1	Quality Plan	M3	DONE
5.2	Annual Course Quality Report	M12, M24, M36	NOW
5.3	Annual Laboratory Build Report	M12, M24, M36	Too early
5.4	Quality Board Meeting	M9, M15, M21, M27, M33	NOW
5.5	External Quality Assessment	M16,M34	Feb 2019 Aug 2020

WP6 D & E

Code	Description	Deadline	Status
6.1	Dissemination Plan (DP)	M2	DONE
6.2	Exploitation Plan (EP)	M3	DONE
6.3	Annual Project Workshop	M11, M23, M35	May 2018 (BG)
6.4	Mass Media Dissemination	M1-M36	CONT.
6.5	Security Services Roundtable	M11, M23, M35	May 2018 (BG)
6.6	Web portal setup and maintenance	M1-M36	CONT.

WP7 Management

Code	Description	Deadline	Status
7.1	Brussels Kick-off Meeting	M2	DONE
7.2	Project Kick-off Meeting	M3	DONE
7.3	Project Steering Committee Meeting	M5, M11, M17, M23, M28, M33	Dec 2017 (NS) May 2018 (BG) Oct 2018 (NI)
7.4	Project Coordination	M1 – M36	CONT.
7.5	Financial Plan	M3	Aug 2018
7.6	Interim and Final Report	M18, M36	Apr 2019 Oct 2020

WP7 Management – additional



- Collaboration with the ImprESS team (another 2017-generation Erasmus+ CBHE project)
 - Joint training in early July 2018 at the Criminalistic and Police Academy (Zemun, Serbia)
 - Meeting with Belgrade Metropolitan University rector on October 24th, 2018



Thank you for your attention!