



- Project: Boosting the telecommunications engineer profile to meet modern society and industry needs [BENEFIT]
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	Work Package and Outcome ref.nr	WP4 - D4.2			
	Title	Implementation of student training modules on technical and entrepreneurial subjects			
	Туре	□Teaching material □Event			
		□Learning material ⊠Report			
		⊠Training material ⊠Service/Product			
Deliverable data	Description	Student training modules (block class/seminar, lab exercise) on technical and entrepreneurial subjects aimed at involving at least 120 students/year. This amount was not intended to be addressed since the beginning, but it was more as a final goal. The training was provided on selected emerging topics in telecommunications engineering practice relevant to industry and included transferrable and complementary skills such as IPR protection, entrepreneurship, establishing startups, product marketing and development, etc.			
	Date	14.02.2021.			
	Language	English			
	□Teaching staff				
	⊠Students				
	🖾 Trainees				
Target groups	\Box Administrative staff				
	Technical staff				
	Librarians				
	□ Industry partners, WB Higher education authorities				
Discourie ations lowed	□ Department/Faculty	Local Instional			
Dissemination level	□ Institution	Regional International			
WP Lead Organization	UB				
Participating	UNI-KLU, UL, FERIT, UBL	, UNSA, UNTZ, UNI, UNS, ENT, BICOM, BIT, CISCO,			
Organization	NICAT, RT-RK				
Task	T4.2 Implement framework for student training in cooperation with EU				
	T4.3 Offer techno-economic, entrepreneurial and IPR related training				
	modules (Task leader: UNS).				

Revision History					
	Version	Date	Author(s)	Organization(s)	Brief description of change
1		03.2.2021.	M. Koprivica G. Marković J. Ćertić	UB	Super draft
2		12.2.2021.	All	UNI-KLU, UL, UB, UBL, UNSA, UNS, UNI, UNTZ, FERIT, CISCO, ENT	Final version
3		16.3.2021.	M. Koprivica, G. Marković, J. Ćertić	UB	Updated with information for Online seminar on Entrepreneurship
4		22.3.2021.	N. Maleš-Ilić	UNI	Deliverable review
5		22.3.2021.	M. Koprivica	UB	Minor revisions
6		22.3.2021.	D. Bošković	UNSA	QB evaluation
7		22.3.2021.	M. Koprivica	UB	Minor revisions

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1. Introduction

The deliverable **D4.2 Implementation of student training modules on technical and entrepreneurial subjects** reports the results of the activities carried out in [1]:

T4.2 Implement framework for **student training** in cooperation with EU partners and industry **(Task leader: UB).**

T4.3 Offer techno-economic, entrepreneurial and IPR related training modules (Task leader: UNS).

Training for students in the project BENEFIT assumed training modules on technical and entrepreneurial subjects. Training topics were devoted to different fields that are important for future ICT engineering development. Several student trainings were organized:

- 1. "ICONIC Autumn Workshop 2018" organized by Faculty of Technical Sciences in Novi Sad devoted to subjects "Cellular Networks, IoT, 4G/5G, LP-WAN", "Systems, Algorithms and Applications (e -Health, Smart Buildings)", and "ICONIC Testbed and Tools".
- 2. "IoT Security" seminar for students organized by School of Electrical Engineering, University of Belgrade three times in January 2019, 2020 and 2021 (online).
- 3. "Cisco Student Day 2019" organized by Cisco Srbija and School of Electrical Engineering, University of Belgrade.
- 4. Training "Central Audio Library at the University of Novi Sad as a New Teaching and Learning Methodology" organized at the International conference Zooming Innovation in Consumer Technologies Conference ZINC 2019.
- 5. Training "Automotive Communication (Car-2-X), Digital Image and Video Processing in Automotive Systems" also organized at the International conference Zooming Innovation in Consumer Technologies Conference ZINC 2019.
- "Cisco Tetration How sensors are combined with machine learning and big data analytics to enable you to better secure, troubleshoot and manage your data center" organized by Cisco Srbija at the 27th Telecommunications Forum TELFOR 2019.
- 7. Seminar organized by AlfaNum "Speech technology progress based on advanced signal processing and Al-ML paradigm one lab practice (experience in collaboration with university partners)" hosted by University of Banja Luka in December 2019.
- 8. Online training "How to achieve a successful career and what is the first step the key elements of success" organized by NiCAT Cluster in December 2020.
- 9. Online training "Business in the field of application of artificial intelligence and development of a team of cyber security analysts" organized by NiCAT cluster in December 2020.
- 10. Online training on "Entrepreneurship based on added knowledge" organized by Faculty of Technical Sciences, University of Novi Sad in February 2021.

The overall result of the tasks **T4.2** and **T4.3** activities that were reached through the implementation of the project BENEFIT are documented with the separate reports on the each of the implemented student trainings. This deliverable (report) presents the main information about the implemented training workshops and seminars.

The main objective of the deliverable is to report on realized student training modules on technical and entrepreneurial subjects implemented in the scope of the project BENEFIT. The deliverable should give short description of implemented training workshops and seminars that were organized through the project BENEFIT implementation, thus including the description of training topics and the overview of the training materials developed and released to the participants during the student trainings.

3. Overview of the implemented student training

In this section a short description was presented for the each of the training workshops and seminars, including the training topics and materials, the number of participants from the participating universities, and the general conclusions regarding participants' assessments on these training events.

The framework for the implementation of student trainings is based on the platforms, developed in the scope of project BENEFIT, that enable distribution of information about trainings, internships and possibilities for working on co-supervised thesis in industry. The information about these activities can be accessed via Industry information portal (<u>https://www.project-benefit.eu/eplatform/?iportal</u>), described in more details in "D4.1. Report on training/internship Web Platform" [2].

The activities in Work Package 4: Training and internship implementation started in second year of the project BENEFIT. According to the plan of activities training for students in the project BENEFIT included training modules on technical and entrepreneurial topics. Starting with MS4.4 planned seminars for students were organized: ICONIC Autumn Workshop 2018, UB - IoT Security 2019 and two seminars during ZINC 2019 conference, by UNS. After that, student training Cisco Student Day 2019, Cisco Tetration at the TELFOR 2019, AlfaNum training on Speech technology and IoT Security 2020 were organized as in-person events (before Covid 19 pandemic start) and all these events attracted a large number of students.

Work Package 4 included students' mobility, and out of planned 6 students from Bosnia and Herzegovina to Austria, 2 master students (1st year) from UNSA spent spring semester 2019/2020 at UNI-KLU. The students completed their stay, although faced with the COVID-19 restrictions during that period, and continued their studies successfully back at UNSA. Students (3) from UNTZ and 1 student from UNSA that were supposed to spend three months (June-September) working on master thesis were not able to implement mobilities due to COVID-19 travel restrictions.

The Covid 19 pandemic had a strong impact on the organisation of the student training events. In march 2020 most of the Western Balkans universities switched to online work. The access to laboratories and classrooms was limited and controlled by government anti-pandemic measures. The teachers had to adjust their regular courses to online teaching. On the other hand, the students were mostly focused on some practical issues (for example, in Serbia they had to move out of the student dormitories) and they were not motivated to attend any of the extra-curriculum activities during the first months of the Covid 19 pandemic crisis. For that reason, some of the planned student training events had to be cancelled or postponed, and starting from March 2020, all events had to be organised online. However, the teachers and professionals from industry partners did their best to provide useful and meaningful training events for the students.

3.1. ICONIC Autumn Workshop 2018 – December 2018, Novi Sad

Seminar for students "ICONIC Autumn Workshop 2018", organized by the Faculty of Technical Sciences in Novi Sad (UNS), was held in Novi Sad on the December 20th and December 24th 2018. Seminar was organized as two day in-person event devoted to subjects "Cellular Networks, IoT, 4G/5G, LP-WAN", "Systems, Algorithms and Applications (e -Health, Smart Buildings)", and "ICONIC Testbed and Tools". On the first day, lectures were covering folowing topics: Session 1 – Cellular Networks, IoT, 4G/5G, LP-WAN: On Throughput Maximization under Reliability-Latency Constraints, Brief Introduction to Finite-Length Information Theory, Distributed Energy Trading via Cellular IoT and Edge Computing and Duplication-Correcting Codes, and Session 2 – Systems, Algorithms and Applications (e -Health, Smart Buildings): Estimation of True Absorbed Patient X-ray Dose, Smart Illumination research problems in H2020 SENSIBLE, Automatic Detection of Respiratory Effort Related Arousals from Polysomnographic Recordings and Satellite based land surface temperature estimation – An introductory overview. Second day was devoted to Session 1 – ICONIC Testbed and Tools 1 covering folowing topics: Discussion about development of ICONIC testbed capacities, NI USRP software-defined radio and Open Air Interface open-source solution for 4G LTE system testbed implementation, NI USRP software-defined radio and GNU radio open source library for wireless communication experimentation, Rohde-Schwarz spectrum analyzer equipment and RF measurements of cellular operator signal coverage in city of Novi Sad and Open Stack open-source solution for Cloud services experimentation.

The total number of student attenedees at this seminar was 10 from UNS.

3.2. Seminar on IoT Security 2019 – January 2019, Belgrade

Seminar on IoT Security 2019, organized by the Cisco Networking Academy, School of Electrical Engineering, University of Belgrade, was held in Belgrade on January 9th, 2020. The main topic of the Seminar was Cisco Networking Academy course "IoT Fundamentals: IoT Security". Seminar was organized as one day in-person event with lectures covering all subjects of the course: The IoT Under Attack, IoT Systems and Architectures, IoT Device Layer Attack Surface, IoT Communication Layer Attack Surface, IoT Application Layer Attack Surface, and Vulnerability and Risk Assessment in an IoT System. After lectures, students were provided access via Cisco Networking Academy portal (www.netacad.com) to all materials: e-learning content, hands-on lab and interactive activities. Upon completion of studying the learning materials, students were enabled to take final exams and earn Cisco Networking Academy certificate "IoT Fundamentals: IoT Security". Feedback from the participants acquired through the questionnaire under Cisco Networking Academy portal was very positive, which indicates that the training of this kind was very well accepted by the university students.

The total number of participants at the Seminar on IoT Security 2019 was 77 students from UB. Figure 3.1 represents some ambient from the Seminar on IoT Security 2019.



Figure 3.1 – Seminar on IoT Security 2019 - January 2019, Belgrade

3.3. Cisco Student Day 2019 – May 2019, Belgrade

Seminar for students "Cisco Student Day 2019", organized by the Cisco Srbija and School of Electrical Engineering, University of Belgrade, was held in Belgrade on the May 16th 2019, Figure 3.2. After presentation of the project BENEFIT, presented subjects of this student seminar were: "Cisco Incubator - educational program for students" and "Internet of things (IoT) and machine learning (ML) in modern life and industry". Seminar was organized as one day in-person event. After lectures, networking with students and Cisco engineers were organized.

The total number of student attenedees at this seminar was 28, from UB (24 students), from UNS (3 students) and UNI (1 student).



Figure 3.2 – Cisco Student Day 2019 - May 2019, Belgrade

3.4. Seminar on Central Audio Library at the University of Novi Sad as a New Teaching and Learning Methodology – May 2019, Novi Sad

Seminar on Central Audio Library at the University of Novi Sad as a New Teaching and Learning Methodology, organized as in-person event by the Faculty of Technical Sciences, University of Novi Sad and RT-RK Institute for Computer Based Systems Novi Sad, was held at the International conference Zooming Innovation in Consumer Technologies Conference - ZINC 2019, in Novi Sad on May 29th, 2019. The main topic of the seminar Central Audio-Library of the University of Novi Sad (Serb. Centralna audio-biblioteka Univerziteta u Novom Sadu - CABUNS) was presented to both types of users - teachers and students. All seminar attendants had opportunity to try the system, hear and evaluate the synthesized speech. One part of seminar was dedicated to the TTS (Text-to-Speech) development based on deep learning paradigm, challenges and achievements for Serbian TTS, including perspectives of voice and style conversion - which could enable students to listen lectures synthesized in voice similar to their professor's voice.

The total number of participants at the seminar on Central Audio Library at the University of Novi Sad as a New Teaching and Learning Methodology was 36 participants, including 11 students from UNS.

3.5. Seminar on Automotive Communication (Car-2-X), Digital Image and Video Processing in Automotive Systems – May 2019, Novi Sad

Seminar on Automotive Communication (Car-2-X), Digital Image and Video Processing in Automotive Systems, organized as in-person event by the RT-RK Institute for Computer Based Systems Novi Sad, was held at the International conference Zooming Innovation in Consumer Technologies Conference - ZINC 2019, in Novi Sad on May 29th, 2019. Focus of the seminar was to bring the audience closer to the hot topic of automotive engineering with special focus on 2 prominent fields - Computer Networks and Image Processing. In the Computer Networks part was focused on exploring the trends of Car-2-X communication: communication that can take place inside (wired) and outside (wireless) of the vehicle (specific automotive communication protocols like LIN, CAN, FlexRay, and BroadR Reach and specific challenges that automotive environment should overcome. The image processing part was explaining why applications based on image processing and computer vision had been crucial for autonomous vehicles. Additionally, the focus was on the analysis of complex Advanced Driver Assistance Systems (ADAS) algorithms and discussion about image processing techniques used for their design.

The total number of participants at the Seminar on Automotive Communication (Car-2-X), Digital Image and Video Processing in Automotive Systems was 13 students, 12 students from UNS and 1 from UNI.

3.6. Training on Cisco Tetration - How sensors are combined with machine learning and big data analytics to enable you to better secure, troubleshoot and manage your data center – November 2019, Belgrade

Training on Cisco Tetration - How sensors are combined with machine learning and big data analytics to enable you to better secure, troubleshoot and manage your data center, organized by the Cisco Srbija and School of Electrical Engineering, University of Belgrade, was held at the International conference 27th Telecommunications Forum - TELFOR 2019, in Belgrade on November 27th, 2019, Figure 3.3. Seminar was organized as in-person training with lectures covering subjects: Tetration solution components overview and installation options, Advantages of telemetry based monitoring, Application dependency mapping with Tetration, Using real-time telemetry data from application

components and behavior-analysis algorithms, Get automated whitelist policy for segmentation, Track behavior changes to keep the policy up to date, Enforce consistent whitelist policy across onpremises data centers and public clouds, Continuously monitor for compliance deviations and identify them in minutes in your production network, Baseline the behavior of the processes running on the servers, Detect whether any packages have known CVEs associated, and define specific remediation actions. Training on Cisco Tetration was organized with open access to all participants of TELFOR 2019 conference.

The total number of participants at the Seminar on Training on Cisco Tetration - How sensors are combined with machine learning and big data analytics to enable you to better secure, troubleshoot and manage your data center was 30 participants, including 8 students from UB.



Figure 3.3 – Training on Cisco Tetration - November 2019, Belgrade

3.7. Seminar on Speech technology progress based on advanced signal processing and AI-ML paradigm - one lab practice - (experience in collaboration with university partners) – December 2019, Banja Luka

Seminar on Speech technology progress based on advanced signal processing and AI-ML paradigm one lab practice - (experience in collaboration with university partners), organized by the AlfaNum and University of Banja Luka, was held in Banja Luka on December 20th, 2019, Figure 3.4. Seminar was organized as one day in-person event together with teacher training seminar "Deep Learning in a Classroom – Education, Research, and Industry Needs", and access was open to teachers and students. Feedback from the participants acquired through the means of the post-training questionnaire was positive, which indicates that the training of this kind was very well accepted by the university students [3].

The total number of participants at the AlfaNum seminar was 20 students from UBL.



Figure 3.4 – Seminar on Speech technology - December 2019, Banja Luka

3.8. Seminar on IoT Security 2020 – January 2020, Belgrade

Seminar on IoT Security 2020, organized by the Cisco Networking Academy, School of Electrical Engineering, University of Belgrade, was held in Belgrade on January22nd, 2020. The main topic of the Seminar was Cisco Networking Academy course "IoT Fundamentals: IoT Security". Seminar was organized as one day in-person event with lectures covering all subjects of the course: The IoT Under Attack, IoT Systems and Architectures, IoT Device Layer Attack Surface, IoT Communication Layer Attack Surface, IoT Application Layer Attack Surface, and Vulnerability and Risk Assessment in an IoT System. After lectures, students were provided access via Cisco Networking Academy portal (<u>www.netacad.com</u>) to all materials: E-learning content, hands-on lab and interactive Activities. Upon completion of studying the learning materials, students were enabled to take final exams and earn Cisco Networking Academy certificate "IoT Fundamentals: IoT Security". Feedback from the participants acquired through the means of the post-training questionnaire was positive, which

indicates that the training of this kind was very well accepted by the university students [3].

Figure 3.5 was taken at the Seminar on IoT Security. The total number of participants at the Seminar on IoT Security 2020 was 53 students from UB.



Figure 3.5 – Seminar on IoT Security 2020 - January 2020, Belgrade

3.9. Online training on How to achieve a successful career and what is the first step – the key elements of success – December 2020, Niš

Online training on How to achieve a successful career and what is the first step – the key elements of success, organized by the NiCAT Cluster, was held online in Niš on December 15th, 2020, Figure 3.6. Online training was devoted to Key elements of success, how to get to the first position, CV, basic competences and interview. The training was recorded and the access to recording was provided to all participants. Feedback from the participants acquired through the means of the post-training questionnaire was positive, indicating that the training of this kind was very well accepted by the university students [3].

The total number of registered participants at the NiCAT online training was 47, including 35 students from the six WB universities that participate in the project BENEFIT (UBL, UNTZ, UNSA, UNI, UNS, UB).



Figure 3.6 – Online training on How to achieve a successful career, December 2020, Niš

3.10. Online training on Business in the field of application of artificial intelligence and development of a team of cyber security analysts – December 2020, Niš

Online training on Business in the field of application of artificial intelligence and development of a team of cyber security analysts, organized by the NiCAT Cluster (Figure 3.7), was held online in Niš on December 21st, 2020. The topics of the online training were "Business in the field of artificial intelligence application on the example of NIRI Intelligent Computing" and "Development of a team of cyber security analysts at RCMT". The training was recorded and the access to recording was provided to all participants. Feedback from the participants acquired through the means of the post-training questionnaire was extremely positive, especially regarding the quality and reception of the speaker(s), indicating that the training of this kind was very well accepted by the university students.

The total number of registered participants at the NiCAT online training was 33, including 15 students from the six universities that participate in the project BENEFIT (UBL, UNTZ, UNSA, UNI, UNS, UB).



Figure 3.7 – Online training on Business in the field of application of artificial intelligence and development of a team of cyber security analysts, December 2020, Niš

3.11. Online seminar on IoT Security 2021 – January 2021, Belgrade

Seminar on IoT Security 2021, organized by the Cisco Networking Academy, School of Electrical Engineering, University of Belgrade (Figure 3.8), was held online in Belgrade on January 13th, 2021. The main topic of the Seminar was Cisco Networking Academy course "IoT Fundamentals: IoT Security". Seminar was organized as one day online event with lectures covering all subjects of the course: The IoT Under Attack, IoT Systems and Architectures, IoT Device Layer Attack Surface, IoT Communication Layer Attack Surface, IoT Application Layer Attack Surface, and Vulnerability and Risk Assessment in an IoT System. After lectures, students were provided access via Cisco Networking Academy portal (www.netacad.com) to all materials: E-learning content, hands-on lab and interactive Activities. Upon completion of studying the learning materials, students were enabled to take final exams and earn Cisco Networking Academy certificate "IoT Fundamentals: IoT Security". Feedback from the participants acquired through the means of the post-training questionnaire was positive, indicating that the training of this kind was very well accepted by the university students [3].

The total number of registered participants at the Online seminar on IoT Security 2021 was 48 students from the UB.

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Figure 3.8 – Online seminar on IoT Security 2021 – January 2021, Belgrade

3.12. Online seminar on Entrepreneurship based on added knowledge – February 2021, Novi Sad

Seminar on Entrepreneurship based on added knowledge, organized by the Faculty of Technical Sciences, University of Novi Sad, was held online in Novi Sad on February 11^{th} , 2021, Figure 3.9. The main topic of the Seminar was Entrepreneurship based on added knowledge. Seminar was organized as one day online event with lectures covering subjects: What is entrepreneurship, Who is an entrepreneur, What is an entrepreneurial opportunity, What is economics, The money, Macroeconomics, Microeconomics, The price of the good from the seller's point of view, The price of the good from point of view of the value for the buyer, Monopoly (sustainable unfair competitive advantage), Marketing 4 + 3 P, Creative problem solving, and Elements of the business model. The training was recorded and the access to recording was provided to all participants. Feedback from the participants acquired through the means of the post-training questionnaire was extremely positive, especially regarding the quality and reception of the speaker(s), indicating that the training of this kind was very well accepted by the university students [3].

The total number of registered participants at the Entrepreneurship based on added knowledge was 45 students from the six universities that participate in the project BENEFIT (UBL, UNTZ, UNSA, UNI, UNS, UB).



Figure 3.9 – Online seminar on Entrepreneurship based on added knowledge – February 2021, Novi Sad

4. Conclusions

Deliverable reports on realized student training modules on technical and entrepreneurial subjects implemented in the scope of the project BENEFIT. The deliverable gives short description of implemented training workshops and seminars that were organized through the project BENEFIT implementation, thus including the description of training topics and the overview of the training materials developed and released to the participants during the student trainings.

Training for students in the project BENEFIT assumed training modules on technical and entrepreneurial subjects. Training topics were devoted to different fields that are important for future ICT engineering development. In total, 12 student trainings were organized and attended by total of 363 students from the six universities that participate in the project BENEFIT (UBL, UNTZ, UNSA, UNI, UNS, UB).

The Covid 19 pandemic had a strong impact on the organisation of the student training events. In march 2020 most of the Western Balkans universities switched to online work. For that reason, some of the planned student training events had to be cancelled or postponed, and starting from March 2020, all events had to be organised online. However, the teachers and professionals from industry partners did their best to provide useful and meaningful training events for the students.

Evaluation by surveys was conducted for nine organized events that included student trainings, and the overall impressions for all events were very good. It can be concluded that the training topics were selected appropriately i.e. in the areas that are probably not enough covered within regular curricula, , especially practical aspects, and the attendees' motivation was large, most likely due to interesting topics and agendas of the events.

5. References

- [1] BENEFIT project proposal, 2017.
- [2] D4.1. Report on training/internship Web Platform, project BENEFIT, 2020
- [3] D4.5 Surveys and reports on training/internship, project BENEFIT, 2021