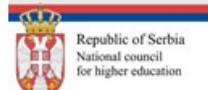


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WP 4, Act 4.4, Purchase of equipment - Report VISER-P11

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Abstract	This document provides a brief overview of all stages of equipment procurement at VISER, P11
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VERSIONING AND CONTRIBUTION HISTORY

Version	Date	Revision description	Partner responsible
v.1.0	13/03/2019	Report – equipment is purchased and delivered First call	VISER (Vera Petrović Aleksandra Grujić, Milan Ivezić, Đorđe Pavlović, Dobrivoje Tarabić)
v.2.0	15/03/2019	Report – equipment is purchased and delivered Second call	VISER (Vera Petrović, Aleksandra Grujić, Milan Ivezić, Đorđe Pavlović, Dobrivoje Tarabić)

v.3.0	20/09/2019	Report-Training	VISER (Vera Petrović, Aleksandra Grujić, Milan Ivezić, Đorđe Pavlović, Dobrivoje Tarabić)
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DISCLAIMER

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1. Introduction

The equipment will be used for educational purposes, i.e for the realisation of practical laboratory classes at VISER, P11, and is meant for students in dual education.

2. Changes to the equipment specifications

Due to the necessity of installation of modern laboratories, we make some changes. The changes have been made because, in the meantime, HD projectors were purchased and we do not need two more projectors. We decided to get a setup of less power (300 W instead of 1kW) because it will be more accessible to students and this kind of setup has smaller dimensions which is more suitable for the laboratory environment. For the rest of the budget, we decided to get the Power Quality analyzer and Power electronics control development, as well as an educational platform LARA-100. These two pieces of equipment lead to a significant improvement of the quality of dual education studies because they are part of modern equipment components used in industry to measure and control important electric quantities.

Partial change in equipment has been approved. Table 1 shows all data on the changed equipment.

Table 1: Equipment Specifications, VISER, P11

	Nature, type and specifications of the item
6.1	Network analyzer Hioki
6.2	Lara
6.31	LucasNulle 1
6.32	LucasNulle 2

3. Preparation of documentation

Preparation of documentation was realised in several meetings on documentation preparation and change of equipment, which is presented in the document titled Attendance list, and put together in a single document titled Minutes of meeting-Institutional VISER, P11 which may be found in VISER Erasmus+DualEdu documentation.

4. First procurement

As a representative of VISER, P11 Dalibor Vukic attended the opening of procurement on November 15, 2018, for the equipment offered in the first procurement.

5. Second procurement

As a representative of VISER, P11 Milan Ivezic attended the opening of procurement on May 13, 2019, for the equipment offered in the second procurement.

6. Installation of equipment

- 6.1. Network analyzer HIOKI was delivered on January 30, 2019, while the installation and training were organised on March 12, 2019. The images below show the equipment and the installation of the network analyzer HIOKI JAPAN (MICOM).



Image 1: Network analyzer HIOKI JAPAN (MICOM).

Full documentation (Purchase Agreement, Receipt and Dispatch Note) is kept in the VISER-Erasmus+DualEdu documentation.

- 6.2. A platform for power electronics for development and education “LARA” was delivered on January 31, 2019, while the installation and training were

organised on March 5, 2019. Image 2 shows the equipment and installation of the Platform for power electronics for development and education “LARA”.



Image 2: Platform for power electronics for development and education “LARA”

Full documentation (Purchase Agreement, Receipt and Dispatch Note) is kept in the VISER-Erasmus+DualEdu documentation.

- 6.3. A set of electric drives Lucas Nulle was delivered on September 2, 2019, while the installation and training was organised on September 12 and September 13, 2019. Image 3a) 3b) and 3c) shows the Set of electric drives Lucas Nulle.



Image 3a: Set of electric drives Lucas Nulle



Image 3b: Set of electric drives Lucas Nulle



Image 3c: Set of electric drives Lucas Nulle

Full documentation *Purchase Agreement, Receipt and Dispatch Note) is kept in the VISER-Erasmus+DualEdu documentation.

The installation and training was organised on September 12 and September 13, 2019.

Image 4a), 4b) and 4c) shows the installation and training of Lucas Nulle equipment.



Image 4a) The installation and training of Lucas Nulle equipment



Image 4b) The installation and training of Lucas Nulle equipment



Image 4c) The installation and training of Lucas Nulle equipment

Figure 5 show a section from the recorded VISER's inventory book from which it can be seen that the equipment is in charge and entered.

Група	Особа	инвБрој	Назив	Место	Број рачуна
011261 20% Опрема за образовање (рачунар. опрема-лабораторије)	Тарабић Добривоје - 1305991790011	1912/001-E4	Erasmus 4 - Hioki CT7736 Klešta +L9910 - опрема за analizu kvaliteta električne energije	Лабораторија 603	19-303-000001
011261 20% Опрема за образовање (рачунар. опрема-лабораторије)	Тарабић Добривоје - 1305991790011	1912/002-E4	Erasmus 4 - Hioki CT7736 Klešta +L9910 - опрема за analizu kvaliteta električne energije	Лабораторија 603	19-303-000001
011261 20% Опрема за образовање (рачунар. опрема-лабораторије)	Тарабић Добривоје - 1305991790011	1912/003-E4	Erasmus 4 - Hioki CT7736 Klešta +L9910 - опрема за analizu kvaliteta električne energije	Лабораторија 603	19-303-000001
011261 20% Опрема за образовање (рачунар. опрема-лабораторије)	Тарабић Добривоје - 1305991790011	1912/004-E4	Erasmus 4 - Hioki CT7736 Klešta +L9910 - опрема за analizu kvaliteta električne energije	Лабораторија 603	19-303-000001
011261 20% Опрема за образовање (рачунар. опрема-лабораторије)	Тарабић Добривоје - 1305991790011	1911/001-E4	Erasmus 4 - Hioki PQ3100 Analizator +sdhd mem.card 2gb - опрема за analizu kvaliteta e	Лабораторија 603	19-303-000001
011261 20% Опрема за образовање (рачунар. опрема-лабораторије)	Павловић Ђорђе - 1311987780036	1919/001-E4	Erasmus 4 - Lara - 100 Power Box (matična ploča, pločica za priklj.na mrežu, pločica za ele	Лабораторија 604	190101
011261 20% Опрема за образовање (рачунар. опрема-лабораторије)	Павловић Ђорђе - 1311987780036	1957/001-E4	Erasmus 4 - Lucas Nuelle LNEPO-2 Komplet el.pogona sa pripadajućom opremom	Лабораторија 604	727-1-91
011261 20% Опрема за образовање (рачунар. опрема-лабораторије)	Павловић Ђорђе - 1311987780036	1958/001-E4	Erasmus 4 - Lucas Nuelle LNEPR-1 Komplet el.pretvarača sa pripadajućom dodatnom op	Лабораторија 604	728-1-91
011261 20% Опрема за образовање (рачунар. опрема-лабораторије)	Павловић Ђорђе - 1311987780036	1920/001-E4	Erasmus 4 - Pretvarač 5,5 kW, energetski deo za Laru-100 Power Box	Лабораторија 604	190101

Figure 5: VISER's inventory book with equipment purchased