

Erasmus + Project No598241-EPP-1-2018-1-RS-EPPKA2-CBHE-JP Strengthening Educational Capacities by Building Competences and Cooperation in the Field of Noise and Vibration Engineering SENVIBE

Quality Report for WP1

Activity 7.2

Date: 22/07/2022





1. DESCRIPTION OF THE WORK PACKAGE (WP)

This WP is the first out of two Preparation WPs. It sets the foundation for the whole project and is concerned with the survey of the state-of-art in Serbia and EU regarding education and cooperation among stakeholders in the No&Vib fields. It has several significant outcomes, one of which is the report on needs analysis and gaps detected, which is strategically important for the country as a whole. Besides a general comparison in the No&Vib fields, which will help Serbian academics overview and understand European educational state-of-the art, this WPs includes defining tailor-made learning outcomes for: students of undergraduate programmes of six different engineering departments, LLL courses, the new MSc programme in VAE. It also matches the EU trends in the existence and modus operandi of No&Vib Hubs with the needs of stakeholders in Serbia.





2. ACTIVITIES AND THEIR REALIZATION

2.1. Assessment per task

SENVIBE activities		State		
No.	Title	Fully Completed	Partially Completed	Not Completed
WP.T1.	Survey and comparison of Serbian and EU education in No&Vib			
WP.T2.	Define tailor-made learning outcomes for students of six EDs			
WP.T3.	Define and shape the learning outcomes for LLL course			
WP.T4.	Review and analysis of thE existing MSc VAE programmes in EU			
WP.T5.	Define learning outcomes for an MSc VAE programme in Serbia			
WP.T6.	No&Vib Hub: matching the EU trends with the needs in Serbia			
WP.T7.	Report on needs analysis and gaps detected			

2.2. Description of the implemented activities

Seven reports were published as the outcome of this work package:

Task 1.1 contained a survey of No&Vib education in Serbia and EU, focusing on undergraduate education, but also including some information on higher levels of education.

<u>Report on Survey and Comparison of Serbian and EU Education in No&Vib (Task</u> <u>1.1) Completed, 22 January 2019 – SENVIBE (uns.ac.rs)</u>

The objective of Task 1.2 comprises the definition of tailor-made learning goals and outcomes for undergraduate courses of six different engineering departments at Serbian universities that participate in the SENVIBE project: Civil Engineering, Electrical Engineering, Environmental Engineering, Mechanical Engineering, Occupational Safety Engineering and Traffic Engineering. Four of them have existing courses which was modernised (Electrical Engineering, Environmental Engineering, Occupational Safety Engineering, Occupation





Report on Tailor-Made Learning Outcomes for Students of six Engineering Departments, 24 April 2019 – SENVIBE (uns.ac.rs)

Task 1.3 included definition of learning outcomes for LLL No&Vib courses, required by engineers to upskill or retrain in a new discipline area. The work was based on an overview and comparison of the LLL courses in the No&Vib fields in the UK and Serbia.

<u>Report on Tailor-Made Learning Outcomes for LLL Courses , 25 August 2019 –</u> <u>SENVIBE (uns.ac.rs)</u>

Task 1.4 contained a review and analysis of existing MSc Vibro-Acoustics Engineering Programmes in the EU, providing an overview of the structure and content of four representative MSc programmes in Sound and Vibrations offered at two SENVIBE partner institutions: •MSc in Acoustical Engineering, University of Southampton (Southampton, UK), •MSc in Engineering Mechanics with specialization in Sound and Vibration, KTH Royal Institute of Technology (Stockholm, Sweden), and two other representative EU universities: MSc in Engineering Acoustics, Technical University of Denmark (Lyngby, Denmark), and MSc in Electroacoustics, University of Le Mans (Le Mans, France).

<u>Review and Analysis of the Existing MSc Vibro-Acoustic Engineering</u> <u>Programmes in EU completed, 2 April 2019 – SENVIBE (uns.ac.rs)</u>

Task 1.5 includes defining learning outcomes for a new MSc Vibro-Acoustics Engineering Programme in Serbia.

<u>Report on Learning Outcomes for an MSc Vibro-Acoustic Engineering</u> <u>Programme completed, 15 July 2019 (the full version of the Report will be</u> <u>available upon the accreditation of the programme) – SENVIBE (uns.ac.rs)</u>

One of the objectives of the SENVIBE project was to establish a No&Vib Hub – a unit/platform that will ensure the existence of links between the key stakeholders - academic and non-academic ones. In task 1.6 two activities were carried out to support this: i) an overview of different ways of linking stakeholders in the field of Noise & Vibration in Europe and elsewhere via examples of good practice has been created, and ii) surveys among certain stakeholders in Serbia related to their interest to participate in the No&Vib Hub have been conducted.

<u>Report on No&Vib HUB: matching the EU trends with the needs in Serbia, 15</u> <u>April 2019 – SENVIBE (uns.ac.rs)</u>

Linking Stakeholders in the Field of Noise & Vibration in the EU via Different Forms of Hubs: Examples of Good Practice, 29 October 2019 – SENVIBE (uns.ac.rs)

Task 1.7 compiled all the activities performed previously in the WP, producing an important outcome – the report on the needs analysis and gaps

detected. This is a document of national interest, as this type of an overview and comparison have never been done in Serbia in the No&Vib field before.

Report on Needs Analysis and Gaps Detected in Educational Capacities and Cooperation in the Field of Noise and Vibration Engineering in Serbia, 22 November 2019 – SENVIBE (uns.ac.rs)

2.2.1. Involvement of people with fewer opportunities

Not applicable

2.2.2. Refugees

Not applicable

2.2.3. Innovation

Task 1.1 provided an overview of the No&Vib education in Serbia, which was not made before.

Task 1.5 included the definition of learning outcomes for a new MSc Vibro-Acoustics Engineering Programme in Serbia.

Task 1.7 covering the report on the needs analysis and gaps detected provided a document of national interest, as this type of an overview and comparison have never been done in Serbia in the No&Vib field before.

2.3. Impact

The outcomes of WP1 and the activities conducted was important for the successful achievement of the project wider aim. It set the foundation for: the development of courses, the development of the new master program, the development of LLL courses and the establishment of the noise and vibration hub.

2.3.1. Unexpected outcomes/ spin-off effects

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3. STATISTICS AND INDICATORS

For Training/Mobility Activities

Number of partner country "HEIs' students" trained

NA

Number of partner country "HEIs' academic staff" trained

NA

Number of partner country "HEIs' administrative staff" trained

NA

Number of partner country "non-HEI individuals" trained (priv. sector, NGOs, civil servants, etc.)

NA

Impact at individual level

Extent of attention given to vulnerable groups

NA

Number of direct beneficiaries in the Partner country(ies) per year: academic staff from HEIs

30

Number of direct beneficiaries in the PCs (/year): administrative staff from HEIs

10

Number of direct beneficiaries in the PCs (/year): HE students

NA

Number of direct beneficiaries in the PCs (/year): non HE individuals

1000



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4. QUALITY ASSURANCE MEASURES

3.1. Reviews conducted in a descriptive form

The reports produced in the WP were approved by internal review before they were published: first by the project coordinator then by the quality assurance group leader and later on by the Steering Committee.

3.2. Rebuttal/answer to reviews with the actions taken to improve the state

Not applicable

3.3. Other measures

None



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Approved by the Quality Assurance Group Leader Sremska Kamenica, 07/10/2022

Approved by Project Coordinator Novi Sad, 14/10/2022

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