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LearnSTEM

Innovative Model of learning STEM in secondary schools

Agenda for the 6th LearnSTEM TPM in Kırşehir, Türkiye

2nd -4th December 2024

Project Title: Innovative Model of learning STEM in secondary schools

Acronym: LearnSTEM

Reference number: 2022-1-TR01-KA220-SCH-000087583

Project partners:

P0 Necmettin Erbakan Üniversitesi, Türkiye

P1 Universität Paderborn, Lehrstuhl Wirtschaftspädagogik II, Germany

P2 Ingenious Knowledge GmbH, Germany

P3 IEK Kavala, Greece

P4 EURO-NET, Italy

P5 Colegiul Tehnic "Haralamb Vasiliu", Romania

P6 Yusuf Demir Bilim ve Sanat Merkezi, Türkiye

P7 AHI Evran Anadolu Lisesi

Host & Venue: *Kırşehir BİLSEM, Türkiye*



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Monday, 2nd December 2024 – Arrival day

Tuesday, 3rd December 2024 – Meeting day

APPROX. TIME	TOPIC	CHAIR
09:00 – 09:30	Registration and Attendance *Attendee registration and signature collection. *Distribution of meeting materials.	<i>All partners</i>
09:30 – 09:45	Welcome and Opening Remarks *Brief overview of the meeting agenda and objectives.	<i>Kırşehir BİLSEM</i>
09:45 – 10:15	Current status of the project LearnSTEM *Review of previous actions. *Overview of Romania meeting minutes *Confirmation of completed actions and pending tasks. *Update on dissemination logs and activities.	<i>NEU</i>
10:15 – 11:30	Evaluation of Online Learning Platform <i>(Tim Kreuzberg & Rasmus Pechuel)</i> https://learnstem-website.eduproject.eu/ *Presentation on the final form of the platform. *Usability testing results and feedback from teachers and students. *Discussion on improvements and final adjustments. *Plans for future use and maintenance.	<i>Ingenious Knowledge</i>
11:30 – 12:30	Planning the National workshop *Partners will hold a half-day event to train the teacher about the products, disseminate the project results, and collect stakeholder feedback. * Discussing arrangements	<i>NEU</i>
12: 30 – 13:30	<i>Lunch</i>	
13:30 – 16.00	Multiplier Event& Teacher Training Programme	
13:30-14:00	Introduction of the Project – NEU & Ahi Evran AL	
14:00-14:30	Introduction of the Learning Platform- NEU & Ahi Evran AL	
14:30-16:00	STEM Teacher Training- NEU	
16:00 –16:30	Closure and Certificate Distribution Closing remarks. Distribution of certificates and group photos.	

Wednesday, 4th September 2024 – Departure day



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INNOVATIVE MODEL OF LEARNING STEM IN SECONDARY SCHOOLS

2022-1-TR01-KA220-SCH-000087583

Meeting Minutes for the 6th LearnSTEM TPM

Host&Venue: Yusuf Demir BİLSEM, Kırşehir, Türkiye

Date : 2nd- 4th December, 2024

Participants : 24 Participants

Institution	Its representatives
Necmettin Erbakan University (Türkiye)	Mustafa Kocaoğlu Yakup Yılmaz Hayriye Ulaş Taraf Şemseddin Gündüz
Universität Paderborn (Germany)	Helene Lindenthal Jan Lütke
Ingenious Knowledge GmbH (Germany)	Ras Pechuel
EURO-NET (Italy)	Antonino Imbesi Giampiero Cautela
Colegiul Tehnic "Haralamb Vasiliu" (Romania)	Gabriel Sigeanu Monica Carp Mihaela Ana Siaz
IEK Kavalas (Greece)	Kalliopi Ntolou
Ahi Evran Anadolu Lisesi (Türkiye)	Ali Erdem Fatih Yavuz Leyla İlhan
Yusuf Demir Bilim ve Sanat Merkezi (Türkiye)	Demet Şener Canlı Turgut Yılmaz Yunus Geçer Hayriye Torunoğlu Seyit Karaburçak Mehmet Aydın Ramazan İlhan Bünyamin Kozanhan

Minutes of the Meeting:

1. Welcome and Opening Remarks

- On behalf of BİLSEM, Hayriye Torunoğlu welcomed participants and provided an agenda overview.

2. Current status of the project LearnSTEM

- The current status of the LearnSTEM project was discussed by Hayriye Ulaş Taraf on behalf of NEU, including completed and pending project activities. All the actions planned to be done since the 6th TPM were completed.



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3. Evaluation of Online Learning Platform <https://learnstem-website.eduproject.eu/>

- Rasmus Pechuel presented the final form of the platform on behalf of IK. As he discussed, some sections on the platform, especially content in other languages, need improvement and translation.

4. Immediate actions below need to be taken for the learning platform.

- The table of headings for website content was created and shared in the drive https://docs.google.com/spreadsheets/d/1F5eHKKHqIQBNmNa8eLzFnCmluCYWAdDiC/edit?usp=drive_link&ouid=11694227944602265067&rtpof=true&sd=true
- The headings in the website content table were also translated into partner languages. We ask **all partners** to check this table of headings by **December 11, 2024**.
- The "About" section will be completed **by Rasmus by December 11, 2024**, and sent to partners for translation in each partner language. Partners will translate this "About" section by **December 13, 2024**.
- After translations are done, **Rasmus** will upload all the relevant content in ENGLISH and ALL PARTNER LANGUAGES **by December 20, 2024**.
- **Each partner** will conduct the USABILITY TEST in their country, namely Germany, Greece, Romania, and Italy, to evaluate the platform. The test must be applied to at least 24 teachers (4 per partner / more than four people are welcome). Upon all website content being translated and uploaded, this usability test will be done **by January 6, 2025**. Please find the link to the usability test here:

<https://docs.google.com/forms/d/e/1FAIpQLSehMxWehWO08GuCltJEBkDu6ell8nSj2R5NRi2bvOfITLVwhq/viewform>

5. National Workshops

- Upon all relevant activities for the platform above being done, each partner needs to do their National Workshop Day after Christmas break. Each team must report to the coordinator via email **by December 31, 2024** about the details of the planned event, including the time, duration, venue, and agenda of the event. All the national workshops must be **done by the mid of January 2025**, and the event reports must be sent to the coordinator and shared in the relevant drive.
- Each partner must organize a half-day workshop in their country to address various stakeholders, disseminate project results, and gather feedback. There must be at least 30-35 people in the event.
- As proof of the event, partner institutions must take attendance, collect signatures, and document the event with photos and an attendance list. Send all proof documents to NEU for final reporting.
- A folder in the drive was created under "National Events ". In the drive, you will find



1. An attendance list to take the participants' signatures, and do not forget to make it scanned and put into the drive back.
https://docs.google.com/document/d/16SUnzV4inqMKzFY3GAvYcQnPevleMcXz?rtpof=true&usp=drive_fs
2. An evaluation form you can either conduct as a Google form or paper form to the participants to evaluate the event.
https://docs.google.com/document/d/16xBuVc-xOqjL8eakXh3JJOGqHAuV5mbU?rtpof=true&usp=drive_fs
3. A template for the report which you will use to report the results you collected through the evaluation form and your general experiences of the event.
https://docs.google.com/document/d/17BxBHF7sszktzRtZl7izBPgnqBXFelmB?rtpof=true&usp=drive_fs

6. Dissemination Logs

- All partners must update their dissemination logs before the final report. Partners are encouraged to put all the proof documents of their dissemination activities in the file, including photos, screenshots, signature lists, videos, or other printed materials.

7. Further Project Work

- As we thoroughly examined the project proposal during the meeting, we identified some further required project activities as the following:

1. Mobile Games

- A total of 10 mobile games must be suggested in English and partner languages **by January 15, 2025**. We aim to compile a list of at least **5 games in English** and **5 in partner languages**. However, we encourage partners to propose as many games as possible to maximize the platform's richness.
- Prioritize games that are free to download and play.
- Look for games that offer multilingual support or have language adaptability.
- Ensure that the games are age-appropriate for the intended users of the LearnSTEM platform.
- Focus on games with positive user reviews, especially those highlighting educational value.
- Please submit your entries via Google Doc here:
https://docs.google.com/document/d/1majG_oXLoTIYY9RIODMR1rD4S7A10fpK1OzTf4a4MfM/edit?tab=t.0

2. National evaluation reports

- Each partner country will produce a national evaluation report by **the end of January, 2025**. Please find the template in the link below:
- https://docs.google.com/document/d/19Zt486Yd9rUHeU12F7IFBSSfmFRG31AS?rtpof=true&usp=drive_fs
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- For the LearnSTEM project, preparing the national evaluation report will involve gathering data from the partner countries through the following surveys requiring feedback from partner team members, teachers, students, and stakeholders regarding the evaluation of each Work Package- the pedagogical model, teacher training design, and the online learning platform.

Each survey will be implemented to at least 20 people in each partner context.

Survey 1 (regarding the overview of good practices, map of stakeholders, and creation of learning units and materials)

https://drive.google.com/open?id=19fvvt2PYKrVKe1c69YsBRaAd9zYKYbZm&usp=drive_fs

Survey 2 (regarding the lesson plans created and search on teachers' STEM needs)

https://drive.google.com/open?id=19dEY1HiShGjoJ42pfpyUJxlvwMe3T9h1&usp=drive_fs

Survey 3 (regarding the evaluation of the online learning platform)

https://drive.google.com/open?id=19eiyoFDDuljOG8Y2CbLgf02lrlSwJ7wP&usp=drive_fs

- The report will report the results of these surveys conducted at the national level. It will also highlight teaching content and methodology issues and assess the learning outcomes and opportunities for future exploitation. Once these national reports are compiled, they will be analyzed to produce a European evaluation report with recommendations for the final versions of the project's key outcomes.
- At least 20 people in each partner context must take part in the evaluation activities.

3. European evaluation report

- After each partner submits its national report, NEU will combine them and produce a European evaluation report.

4. Final dissemination Conference in Turkey

- It will be done by NEU to address 45 stakeholders (upper and lower secondary schools, VET institutes, teachers, students, researchers, school staff, teachers' training organizations, training providers, companies, HEIs, research institutes, Scientific Parks, public authorities, policymakers, trade unions, NGOs, Cedefop, etc.).
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LearnSTEM

Innovative Model of learning STEM in secondary schools

6th LearnSTEM transnational partner meeting in Kırşehir

Evaluation Report

Project Title: Innovative Model of learning STEM in secondary schools

Acronym: LearnSTEM

Reference number: 2022-1-TR01-KA220-SCH-000087583

Project partners:

- P1 Necmettin Erbakan Üniversitesi, Türkiye
- P2 Universität Paderborn, Lehrstuhl Wirtschaftspädagogik II, Germany
- P3 Ingenious Knowledge GmbH, Germany
- P4 IEK Kavala, Greece
- P5 EURO-NET, Italy
- P5 Liceul Tehnologic "Haralamb Vasiliu", Romania
- P6 Yusuf Demir Bilim ve Sanat Merkezi, Türkiye
- P7 AHI Evran Anadolu Lisesi

Host: P6 Yusuf Demir Bilim ve Sanat Merkezi, Türkiye

Venue: Yusuf Demir Bilim ve Sanat Merkezi, Kırşehir

TPM6 – Evaluation Report

1. Purpose of the Evaluation

The purpose of this evaluation is to assess the effectiveness and quality of TPM6 held in Kırşehir in terms of content relevance, presenter preparedness, meeting logistics, and overall participant satisfaction.

2. Summary of Evaluation Metrics

2.1 Content Usefulness and Relevance

- All participants selected "Strongly agree" regarding the relevance and usefulness of the content presented.
- This indicates a 100% satisfaction rate in this category.

2.2 Presenter Preparedness and Knowledge

- Again, all participants strongly agreed that the presenters were well-prepared and knowledgeable.
- This consistent response shows a high level of appreciation for the quality of presentations delivered.

2.3 Event Duration and Dynamics

- Participants unanimously strongly agreed that the event duration and format were appropriate to achieve expected outcomes.
- The dynamic structure appears to have been well-received and effective.

2.4 Venue and Working Conditions

- Feedback indicated 100% strong agreement that the meeting space and conditions were suitable and comfortable.
- Comments like "Meeting room and food were excellent" reflect a positive logistical experience.

3. Qualitative Feedback Summary

3.1 What Participants Liked Most

- Common responses included:
 - "Everything"
 - "All was in order"
 - "Food and meeting room"
 - "The working environment"
- This indicates a holistic satisfaction with both content and environment.

3.2 What Participants Liked Least

- Most responses indicated no dissatisfaction:
 - “Nothing”
 - “All was good”
 - “I like it all”
- One mention of “Snacks” as an area for improvement suggests a very minor issue that could be refined in future events.

4. Expectations Fulfillment

- All respondents marked “Strongly agree” when asked whether the event met their expectations.
- This again highlights the exceptional satisfaction level and effectiveness of the event.

5. Analysis and Conclusions

TPM6 in Kirşehir received unanimously positive feedback across all metrics. The evaluation reflects a well-organized, content-rich, and engaging meeting with high-quality presentations and a supportive working environment. The absence of any critical negative feedback and the emphasis on full satisfaction strongly suggest that the planning and execution of TPM6 successfully met its intended goals.

6. Recommendations for Future TPMs

- Maintain the high standards of logistical and content-related preparation.
- Consider adding minor improvements to refreshments/snacks, based on one isolated suggestion.
- Continue leveraging interactive and well-structured meeting formats that support engagement and output.