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

LearnSTEM

Innovative Model of learning STEM in secondary schools

Agenda for the 4th LearnSTEM transnational partner meeting in Potenza, Italy

25th -27th June, 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 Ingenious Knowledge GmbH, Germany
P2 IEK Kavalas, Greece
P3 Ahi Evran Anadolou Lisesi, Türkiye
P4 Liceul Tehnologic "Haralamb Vasiliu", Romania
P5 Universität Paderborn, Germany
P6 EURO-NET, Italy
P7 Yusuf Demir Bilim ve Sanat Merkezi, Türkiye

Host & Venue: *Vicolo Luigi Lavista, 3 - 85100 Potenza*

Tuesday, 25th June 2024 – Arrival day, Italy, Potenza

Wednesday, 26th June 2024 – Meeting day

APPROX. TIME	TOPIC	CHAIR
09:30 – 09:45	**Registration and Gathering**	*All partners*
09:45 – 10:00	**Welcoming the LearnSTEM partners**	*EURO-NET Antonino Imbesi*
10:00– 11:00	**Current status of the project LearnSTEM**	*NEU Mustafa Kocaoğlu Hayriye Ulaş Taraf*
11:00– 12:00	**Current status of the state-of-the-art activities of WP2 -** *the LearnSTEM Pedagogical Model*	*UPB Marc Beutner & Helene Lindenthal All schools*
12:00-13:00	**Current status of the state-of-the-art activities of WP3-** *LearnSTEM Teacher Training Programme*	*NEU Hayriye Ulaş Taraf*
13:00-14.30	*Lunch*	
15:00 – 16.00	**Current status of the state-of-the-art activities of WP4-** *LearnSTEM Online Learning Environment*	*Ingenious Knowledge GmbH Rasmus Pechuel*
16:00 – 16.30	**WP1 and WP5 – Project Management and Meetings** ▪ Dates for the next TPM ▪ Project management structure ▪ Documentary evidence required ▪ Administrative and Financial Information	*AEAL Ali Erdem*
16:30 – 16.45	**Dissemination and Exploitation**	*EURO-NET Antonino Imbesi*
16:45 – 17:00	**Meeting and Project Evaluation** ▪ Meeting evaluation form	*EURO-NET Antonino Imbesi*

Thursday, 27th June 2024 – Departure day

INNOVATIVE MODEL OF LEARNING STEM IN SECONDARY SCHOOLS
2022-1-TR01-KA220-SCH-000087583
Meeting Minutes for the 4th Learn STEM TPM

Host   : Euro-Net
Date   : 25th-27th June, 2024
Venue   : Vicolo Luigi Lavista, 3 - 85100 Potenza, Italy
Participants : 26 Participants

Institution	Its representatives
Necmettin Erbakan University (Türkiye)	Mustafa Kocaoğlu Şemseddin Gündüz Yakup Yılmaz Hayriye Ulaş Taraf
Universität Paderborn (Germany)	Jennifer Schneider Sebastian Koppius
Ingenious Knowledge GmbH (Germany)	Rasmus Pechuel Tim Kreuzberg
EURO-NET (Italy)	Antonino Imbesi Anna Lagrotta
Colegiul Tehnic "Haralamb Vasiliu" (Romania)	Gabriel Signeanu
IEK Kavalas (Greece)	Kalliopi Ntolou Grigorios Iosifidis Evangelia Tzimika
Ahi Evran Anadolu Lisesi (Türkiye)	Ali Erdem Fatih Yavuz Bülent Karakoç Miyase Duygu Türkmenoğlu Necmettin Altunkılıç Mustafa Öztürk
Yusuf Demir Bilim ve Sanat Merkezi (Türkiye)	Hayriye Torunoğlu Ramazan İlhan Siyami Tufan Mehmet Aydın Seyit Karaburçak Bünyamin Kozanhan

Minutes of the Meeting:

1. Registration and Attendance
- Attendance was taken and noted. Please find the attendee signature list in the 4th TPM folder.
  https://drive.google.com/open?id=1_6uyytncPCiS6NC32Kd9D_n-4BQ5SYWO&usp=drive_fs

2. Welcoming Speech
- Antonino welcomed all the participants and opened the meeting.

3. Introduction of New Members
- New members involved in the partner teams introduced themselves.

4. Current Status of LearnSTEM Project (Presented by Hayriye)
- Hayriye provided a detailed update on the current status of the LearnSTEM project.

5. Issues to be Examined:
- **File Naming in Drive:** There is a lack of unity in file naming despite existing guidelines.
  Action: All partners to review the guidelines and ensure compliance.
  https://docs.google.com/document/d/1OE9JkHE3Ok716F4rO02VvSak8veJe8d5?rtpof=true&usp=drive_fs

- **Updates in Project Teams and Members:** If any updates in the project teams and members are necessary, please complete the file below
  https://docs.google.com/document/d/1-k5-oirF89PIsIWpeGLb2JTICkLHJUjQ?rtpof=true&usp=drive_fs

- **Checking Documents in the Drive:** Partners need to review and ensure all necessary documents are located in the correct folders, updated, and correctly named.

- **Justification of Costs:** Ahi Evran and BİLSEM need to submit missing files- the documents of travel to the relevant TPM folders.

- The collection of 'Good Practice Examples of Innovative STEM Learning' has been edited by BILSEM. Please promote and disseminate this link on the relevant platforms and social media.
  https://heyzine.com/flip-book/82b3cb5bf0.html

6. State-of-the-Art Activities (WP2)
- **Translations:** There are missing parts in the Excel file for H5P tasks. Please check the document in the link and translate the missing parts into your own language.
  https://docs.google.com/spreadsheets/d/1TyuIQbOyDCLi__pt9OB7CGLOnNT_NmvSTBCorKcWTT4?usp=drive_fs
- The PPTs of learning units and resources need to be translated into partner languages. Only documents in the Italian language are missing.
- Action: Euro-Net will translate the learning unit PPT resources into Italian.

7. State-of-the-Art Activities (WP3)

- **Lesson Plan Translations**
  Mistakes were noted, such as inconsistent translations of a Romanian special name.
  Action: Each partner needs to review and correct translations.
- **German Translations:**
  The UPB team will translate all lesson plans into German.
- **Lesson Plans by BILSEM:**
  These will be re-translated into Greek, Italian, Romanian, and German.
- **LearnSTEM Teacher Training Programme:**
  - Partners need to use the Romanian partner's report as a model for revisions here
    https://drive.google.com/open?id=1Pvf4So6ch6qxpyKL16MzzxmvfRd4_lIF&usp=drive_fs
  - Please put your report into the Survey Results file here
    https://drive.google.com/open?id=1PuyJxGeZusqh8M-pxFPwQJhq2bmyLN-P&usp=drive_fs
  - NEU will be responsible for writing a research article based on the findings from the partner schools. Please email **stemeuproject@gmail.com** notifying us that your institution agrees to publish the partner findings as a research article and name the active contributors in the email.

8. State-of-the-Art Activities (WP4)

- **LearnSTEM Online Learning Environment:**
  Tim Kreuzberg, on behalf of Ingenious Knowledge, presented about the web portal and sorted out the open questions. Usability testing will be done before the meeting in Romania.

9. WP1 and WP5 – Project Management and Meetings

- **Next TPM Dates:**
  - Romania: 4-6 September 2024 (Working day: September 5) regarding the evaluation of the online learning platform and planning of the dissemination conference in Kırşehir.
  - Türkiye: Kırşehir, 2-4 December 2024
  - NEU's online meeting in mid-July with Rasmus
- **Platform Final Form:**
  - To be checked in Romania on September 5.
- **Usability Testing:**
  - To be done by team members and a small group of teachers and students. We need teachers with real teaching experience in STEM to teach these units---who will use the platform- teachers of STEM/ professors of STEM/ maybe students- 2/3 teachers and 4/5 students to implement the platform.

10. Dissemination and Exploitation

- **Videos:**
  - First video by Ahi Evran Anadolu Lisesi
  - Second video by Necmettin Erbakan University
  - The third video will be developed by Necmettin Erbakan University after the dissemination conference in Kırşehir.

- **Dissemination Plan by EuroNET:**
  - o All partners need to examine the dissemination plan developed by Euro-NET.
    https://drive.google.com/open?id=1dbmBbxJKb9FHHArC0ZspwLOHIAMxXqSD&usp=drive_fs
  - o Photographs or screenshots of activities are to be shared in the drive folder.

- **Dissemination Log:**
  - o All the partners need to keep their dissemination reports updated. Ingenious Knowledge needs to add entries.
    https://docs.google.com/spreadsheets/d/1O8z-XIppoaclpEIRbSJLRLUQNka0JwWw?rtpof=true&usp=drive_fs

11. Meeting and Project Evaluation

- **Evaluation Form:**
  - o Antonino completed the evaluation process of the 4th TPM. https://drive.google.com/open?id=1T2GsliZfnr4ZzBs_Z0ABkTC6840U3tR3&usp=drive_fs
- **Certificates & Photos:**
  - o All the certificates issued are found in the TPM folder. Please also include photos taken during the meeting in the 4th TPM folder. https://drive.google.com/open?id=1Pwfb7jKS_SXylnmjejqvxR9PHjclJD3S&usp=drive_fs

Closure:

The closure of the meeting was done by distributing the certificates by Antonino.