



HIIT PR3 HIIT e-learning space

PR3/T1. E-learning space requirements report

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1 INTRODUCTION

The purpose of the report “HIIT e-learning space requirements” is to detail existing e-learning solutions and platforms being analysed to select the solution which fits best the purpose of the project, the STEM HE teachers’ preferences concerning the learning approach, curriculum and content. HIIT e-learning space is developed on Instructional Technology principles. To optimise cost and increase sustainability, it’s opted for existing open-source solutions for e-learning and customised them to develop an e-learning space for individual learning paths, quick access to specific content, as well as mobile-friendly.

The V2 of the report includes updates regarding feedback from partners and in V3 screenshots from the platform were renewed according to the current version.

2 PR3/T1 E-LEARNING SPACE REQUIREMENTS

The space is designed according to the constructs and principle of Instructional Technology and so we “practice what we preach”. We analysed the existing technologies and/or platforms (e.g., MOODLE, teachable, Blackboard) and benchmark these against the Instructional Technology principles and the aforementioned criteria, to select the most appropriate one, bearing in mind the time and resource constraints, as well as the technological infrastructure and means of the participating HEIs. Thus, PR3/T1 reports on functionalities and requirements.



2.1 CRITERIA FOR SELECTING SOLUTIONS FOR E-LEARNING SPACE- FUNCTIONALITIES

Before starting to develop the HIIT e-Learning Space, we first analysed the existing e-learning solutions and platforms to select the solution which fits best the purpose of the project with respect to the pre-defined learning approach, the content and targeted learners. Table.1 was created to evaluate the differences between available e-learning platforms. We assessed the systems based on the maintainability, compatibility, usability, modularity and accessibility in equal weights to choose the best e-Learning Space.

Criteria	Maintainability (20 Points)	Compatibility (20 Points)	Usability (20 Points)	Modularity (20 Points)	Accessibility (20 Points)	Total
Moodle	20	18	17	20	19	94
TUTOR LMS	20	19	19	20	19	97
Teachable	19	19	15	18	19	91
Blackboard	19	19	18	19	19	94

The experts of the field evaluated the e-learning platforms according to the criteria above and a comparison list was detailed in the Appendix. The results showed that Tutor LMS was taken the slightly highest point at all criteria. Therefore, it was decided to use Tutor LMS as the HIIT e-Learning Space.

TUTOR LMS can work seamlessly integrated with our main website. With TUTOR LMS, we are able to create and manage our own e-learning content on our website, allowing us to customize the look and feel of the space to match our brand and design. Additionally, it offers features such as tracking the student performance, managing exams, and communicating with students within the e-learning space. As stated in the project design, this application appears as an add-on to the open-source WordPress service. This allows us to leverage the power and flexibility of the WordPress platform while also having access to the advanced e-learning functionality provided by TUTOR LMS. With this integration, we can easily create and manage our e-learning content, track student progress, and communicate with students all within a single, unified platform. Furthermore, the integration allows us to maintain a consistent user experience and design throughout our website.

2.2 BASICS OF HIIT E-LEARNING SPACE - COURSES

HIIT e-learning space is located in the HIIT webpage and accessible through the “E-learning Space” menu. This page is where the courses prepared within the scope of the HIIT contents will appear. You can access the content of the course by clicking the “Start Learning” button. It is possible to see the courses/units that have already been uploaded to the learning environment, watch the video/ppt course materials, reach resources, etc. for below units:

- Instructional Technology
- Instructional Design

- Students with Learning Barriers
- Toolkit

When the learner clicks on “TOOLKIT” he/she will be able to filter the tools according to their needs, for example, “phases where the tool is applicable?” filter will allow to select either preparation/planning/design” or “implementation” or “evaluation”. Thus, the learner will be able to filter out and find the best tool for their needs.

The learners are not required to register to access the content on the system. Contents are open to all people who are interested in them; however, if a learner would like to monitor his/her academic performance and add the courses to the dashboard, they are required to register/login.

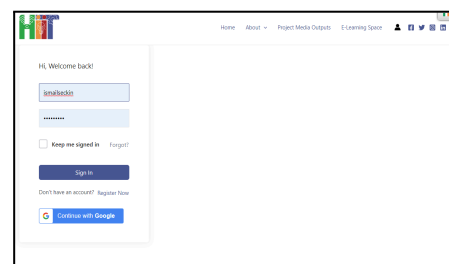
HIIT E-Learning Space is an integrated system with our main website. Thus, the user can access the entire educational environment with a single account, edit their information, and keep in touch with the project in a single integrated space.

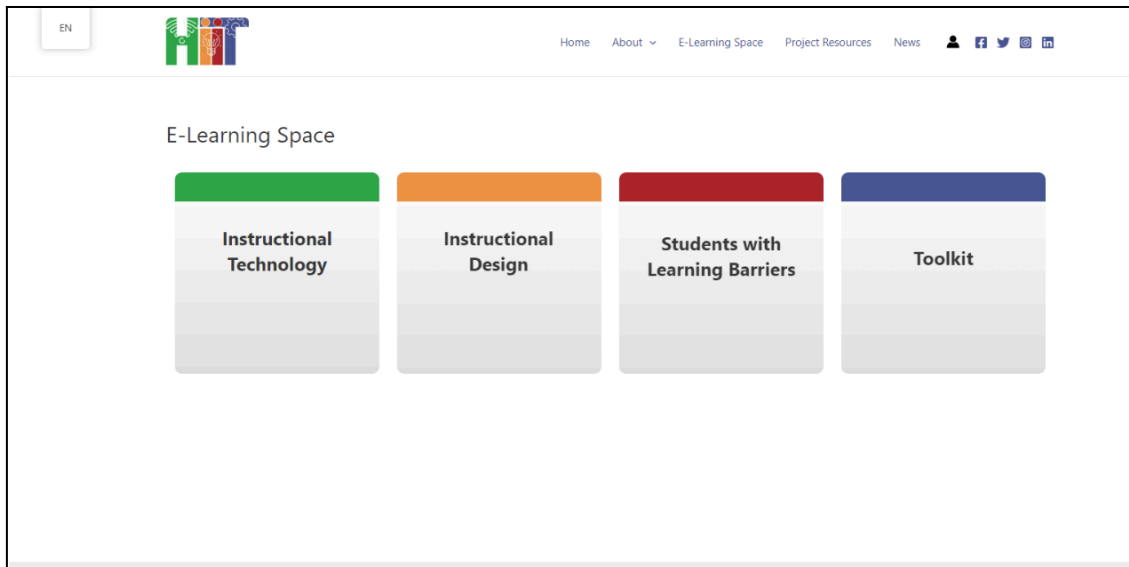


When we enter the HIIT website (<https://www.hiitproject.eu/>), the home page welcomes us. The log in and registration screen can be accessed by clicking the user icon in the upper right corner. The “Home” button allows you to go to the main page; the “About” dropdown menu allows you to reach the information page about the project and the project team,

the E-Learning Space allows you to the page where the courses are listed.

You can log in with your current information on this page. If you do not have an account, you can register. You can press the "Continue with Google" button to perform all these operations faster. In this way, you can log into the education environment with your Google account.





2.3 DASHBOARD

After logging into the website, you will be redirected to the control panel. If you are logged in to the site, you can access the control panel by clicking on your avatar icon next to the social media buttons above from any page. However, it should be noted that the user must be a registered user to use these features below. Unregistered users can access all materials, take courses, but follow-up is done individually, not automatically through the system.

1. *My Profile*

My profile is the place where the user's information is located. In addition, in this section, all information entered by the user can be changed and updated.

2. *Enrolled Courses*

This section contains information about the courses started, on-going or completed by the user.

3. *Settings*

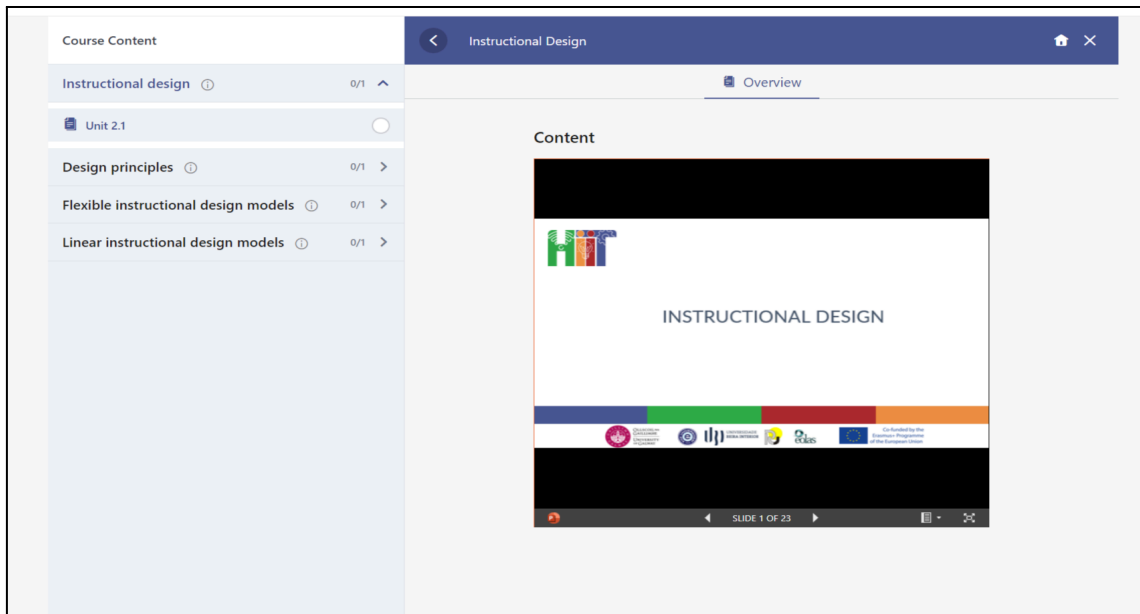
In this section, for the settings made through the system such as the operations of updating or changing these settings.

4. *Logout*

The user can log out of the system.

2.4 A SAMPLE COURSE INTERFACE


In the learning environment, course materials are distributed using the same structure. The course contents are presented in main units and sub-units on the left side of the screen. Learning materials are uploaded for each sub-units and each learning material can be downloaded when the internet is not available.



The tools in the ToolKit are prepared in a way to explain the most effective way to use. These contents ensure that the selected tool is delivered to the user in the most meaningful way. As can be seen in the screenshot below, each tool is delivered on the same structure in an effective way.

SPIN THE WHEEL

. 15-25, 25+ , Collaborative team setting, Communication and motivation, Group Activity, Half an hour or less, Individual Activity, On-line Classroom activity, Undetermined. Up to 15, Use ◀ ▶ Wishlist Share



Start Learning

Requirements

- N/A

About Course

Spin the Wheel is a digital version of a classic spinning wheel game that is often used for decision-making, random selection, or creating an element of chance. The formal website of this tool is: <https://spintthewheel.io/>.

Course Content

Description ^

- What is this technique about
- For which purposes is it used (why in your STEM teaching)
- Limitations of the Tool



The user can watch the videos in the course content, access documents such as pdf and enter the assessment/evaluation section when he/she completes the module.

2.5 DRAFT ALPHA VERSION OF HIIT E-LEARNING SPACE (D-AHLS)

D-AHLS is the draft version of the HIIT e-learning space. The content developed in PR2 is integrated allowing the participants to drill deeper into the skills, knowledge, and attitudes identified and developed by the former PRs, also offering a place for knowledge sharing. D-AHLS was populated with a sample set of content, and subject to test content and environment integration. After the testing of that integration finalize, D-AHLS turns to Alpha Version, which is an internal test by experts in the consortium.

2.6 TRANSLATION

Website and “E-Learning Space” are systems that allow translation completely. In particular, the service we use to create the educational environment already has translations into consortium partners’ languages.

3.APPENDIX

	TUTOR LMS	Moodle	Blackboard Learn	Teach:able
Integration	Since it is a plugin, its integration with our website is seamless.	Since it is not an integrated system and it is a different platform, its integration into our website is questionable	A moodle-like platform customized for use by institutions. Therefore, integration is not possible.	This service is not selected as an integration because it does not match the project outputs. What HIIT needs is to be able to create more modules with the free version.
Customizable	Because it works as a plugin, it automatically uses the colors of the WordPress website it is attached to. All variables can be renamed. can be customized. (ex. Courses renamed to E-Learning Contents)	As it is a system in its own right, the setup and customization steps need to be emulated from the very beginning to the design of the HIIT website. All these are changes that are difficult to implement by Moodle LMS.	Appearance customization is possible, but it's challenging to get it to look compatible with the HIIT website.	Appearance customization is possible, but it's challenging to get it to look compatible with the HIIT website.
Tracking student performance	This system allows for tracking the student performance	This system allows for tracking the student performance	This system allows for tracking the student performance but not in the free version.	This system allows for tracking the student performance but not in the free version.



Evaluation	This system allows managing the exams	This system allows managing the exams	This system allows managing the exams but not in the free version.	This system allows managing the exams but not in the free version.
Communication	This system allows communication with students within the e-learning space	This system allows communication with students within the e-learning space	This system allows communication with students within the e-learning space	This system allows communication with students with email
Open-source	This system is the Add-on to open-source WordPress	This system is not an add-on but an open-source-based system.	This system is not an add-on	This system is not an add-on
Management	The Tutor LMS system is a simplified plugin to create e-learning environments and managing modules. This plugin puts user experience first.	Moodle system is a system customized for remote synchronous education. Usage areas are not selected because they do not overlap with our project.	The system allows easy course creation, but these come with limitations in the free version.	The system allows easy course creation but these come with limitations in the free version.