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D3.2 – Training Courses / MOOCs Completed

LEADS – Certification of Linguistic, Entrepreneurial and Digital Skills in the Algerian Higher Education System

Project reference	101126783
Deliverable	D3.2 – Training courses/MOOCs completed

1. Purpose and scope

This document provides an overview of the training courses developed under Work Package 3 of the LEADS project and reported under deliverable D3.2 – Training courses/MOOCs completed. It describes the subject areas covered, the levels and language versions made available, and the technical format used to facilitate their deployment and reuse by partner higher education institutions.

In line with the deliverable description, five courses are produced in MOOC format, including two Arabic-language translations. Each course is designed to represent a learning workload equivalent to 3 ECTS and includes learning resources, learning activities and self-assessment opportunities. The course catalogue below details the learning pathways and language versions made available through the project.

2. Overview of the training offer

The LEADS training offer addresses three complementary competence areas: digital skills, English language proficiency and entrepreneurship. The courses are organised into progressive levels to support learners with different starting points and learning needs.

Training area	Levels / progression	Language versions	Main purpose
Digital Skills	Foundation, Intermediate and Advanced	English and Arabic	Development of digital competences through three progressive levels.
English Language	A1, A2, B1, B2, C1 and C2	English	Development of English language proficiency across the six levels.
Entrepreneurship	A1, A2, B1, B2, C1 and C2	English and Arabic	Development of entrepreneurial knowledge and competences through progressive learning levels.

Note: The level labels used for the Digital Skills pathway (Foundation, Intermediate and Advanced) are specific to that training area. The English Language and Entrepreneurship pathways are organised using the A1–C2 level sequence.

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3. Pedagogical design and learning components

The courses are designed for flexible, learner-centred study. Their structure combines learning content with activities that encourage learners to apply and consolidate the competences addressed in each module. Self-assessment tests are included to help learners monitor their progress and identify areas requiring further study.

The learning resources and activities are organised within the relevant course or level structure. The materials are intended to support self-paced learning and can also be used by teachers and trainers as part of blended or face-to-face training arrangements.

4. Technical format and Moodle compatibility

The course materials are supplied in Moodle XML format. This format enables the structured transfer and import of supported learning resources—particularly question-bank items and assessment questions—into a Moodle learning management system. The XML files can therefore be imported into a Moodle platform and used as part of the corresponding course setup.

For clarity, Moodle XML is an import format for supported Moodle content; it is not, by itself, a complete Moodle course backup. Where a complete course, including its activities, settings, enrolment configuration and other course components, is to be restored in one operation, a Moodle backup file (.mbz) is normally required. Accordingly, the D3.2 materials should be described as Moodle XML files prepared for import into Moodle, rather than as full-course Moodle backups, unless an .mbz backup is also provided.

After import, the receiving institution can integrate the resources into its Moodle course structure, review the settings, and adapt the presentation or learning sequence to its local teaching context. This approach supports portability, reuse and further development by the partner institutions.

In addition to the Moodle XML files, complete Moodle course backup files (.mbz) are made available for download through the following shared repository:

Moodle Course Backup (.mbz) :
https://drive.google.com/drive/folders/1AWF6lqpGK_Lg8CwEVnCaNwpP3duJcEmN

These backup files allow partner institutions and other interested higher education institutions to restore the complete courses directly on their Moodle platforms, preserving the course structure, learning resources, activities and assessment components included in the backups.

To restore a course, users can download the corresponding .mbz file and use the Moodle course restoration functionality. This facilitates the deployment, transfer and reuse of the LEADS training courses across different Moodle-based learning environments.

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5. Additional Output: ATLAS – Authoring Tools for Learning Activities Studio

5.1 Overview and purpose

In addition to the training courses initially planned within the LEADS project, an additional pedagogical tool, **ATLAS (Authoring Tools for Learning Activities Studio)**, was developed to enhance the interactivity and learning experience of the courses.

ATLAS is designed as an authoring environment accessible directly from within a Moodle course. It provides teachers and course designers with a set of tools for creating interactive learning activities without requiring them to use external proprietary software or install additional applications.

The initial set of tools includes:

- **Flashcards generator:** for creating interactive flashcards to support knowledge acquisition, revision and memorisation;
- **Mind map generator:** for organising concepts, illustrating relationships between ideas and facilitating the visual understanding of course content;
- **Quiz generator:** for creating interactive quizzes that enable learners to practise, check their understanding and receive feedback.

5.2. Integration into Moodle courses

ATLAS is designed to operate as an integrated authoring interface within Moodle courses. The activities generated through the tool can be incorporated directly into the course environment, allowing learners to interact with them without leaving the Moodle platform.

This integration provides teachers with a practical way to enrich their courses with interactive learning activities and to diversify teaching approaches.

Rather than relying exclusively on static course materials, teachers can use ATLAS to introduce active learning activities that encourage learner participation, self-assessment and engagement with the content.

The tool also simplifies the creation of pedagogical resources by providing an accessible authoring environment within the existing Moodle learning management system.

5.3. Contribution to the LEADS training courses

ATLAS complements the MOOCs and training resources developed within LEADS by providing teachers with additional means of transforming course content into interactive learning activities.

It can be used to:

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- Reinforce key concepts through flashcards;
- Provide visual representations of concepts and their relationships through mind maps;
- Create short quizzes to support practice and formative assessment;
- Improve learner engagement and encourage active participation;
- Enrich existing courses without requiring major changes to their structure.

The tool is therefore intended to support the pedagogical exploitation of the LEADS courses and to facilitate the continuous improvement of their learning activities.

5.4. Availability and use beyond the LEADS project

ATLAS is shared as a reusable pedagogical resource. Its use is not restricted to the courses developed within the LEADS project.

Teachers and course designers can also use it to create interactive activities for other Moodle courses, including courses developed independently of LEADS.

This broader availability is intended to encourage the adoption of interactive teaching practices across higher education institutions and to extend the benefits of the project beyond its original scope.

By providing a reusable authoring environment directly accessible from Moodle, ATLAS contributes to the sustainability and wider dissemination of the pedagogical innovations developed within the project.

5.5. Added value

Although ATLAS was not included in the original project proposal, its development represents an additional output that strengthens the pedagogical dimension of LEADS.

It complements the training content with practical authoring capabilities, enabling teachers to move from the delivery of learning materials towards the design of more interactive and learner-centred learning experiences.

Its integration into Moodle and its availability for use beyond the LEADS courses make ATLAS a potentially valuable resource for the wider Algerian higher education community.

6. Workload and ECTS equivalence

As specified in the D3.2 deliverable description, each course is designed to correspond to a learning workload equivalent to 3 ECTS. The workload is associated with engagement with the learning resources, completion of the proposed activities and self-assessment. The formal recognition or award of ECTS, where applicable, remains subject to the academic regulations and validation procedures of the institution concerned.

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7. Availability, reuse and sustainability

The Moodle-compatible format facilitates the deployment of the training materials across the LEADS partner institutions and other higher education institutions using Moodle. The materials can be imported, organised within local learning environments and reused to support training, certification preparation and continuing professional development.

The modular organisation by subject area and level also makes it possible to select relevant components according to learners' needs and institutional priorities. Institutions may contextualise the learning activities while retaining the core learning objectives and assessment resources developed within LEADS.

8. Conclusion

The development of the five training courses represents a major achievement of the LEADS project. Covering Digital Skills, English Language and Entrepreneurship, these courses provide structured learning pathways adapted to different competency levels and are available in English and Arabic, as appropriate.

Their Moodle-compatible formats facilitate their integration, deployment and reuse across Algerian higher education institutions. The availability of the courses and associated resources also supports their continued exploitation beyond the project implementation period.

In addition to the five training courses initially planned, the project produced **ATLAS (Authoring Tools for Learning Activities Studio)** as an additional pedagogical output. Integrated directly into Moodle courses, ATLAS enables teachers and course designers to create interactive flashcards, mind maps and quizzes that can be incorporated into learning activities. Its availability for use not only in LEADS courses but also in other Moodle-based courses extends the project's pedagogical contribution beyond its original scope.

Together, the training courses and ATLAS provide complementary resources: the courses deliver structured learning content, while ATLAS gives teachers practical tools to enrich that content with interactive activities. This additional output strengthens the pedagogical dimension of LEADS and contributes to the sustainability, transferability and wider dissemination of its results within the Algerian higher education system.

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