

Newsletter 3

Introducing Gems-Tech



JUN 2026

GEMS-TECH.EU

@GEMS-TECH

Microcredentials



Green Maritime Horizons
Collaborative Innovation in
Ship Engineering
and Sustainable Technologies

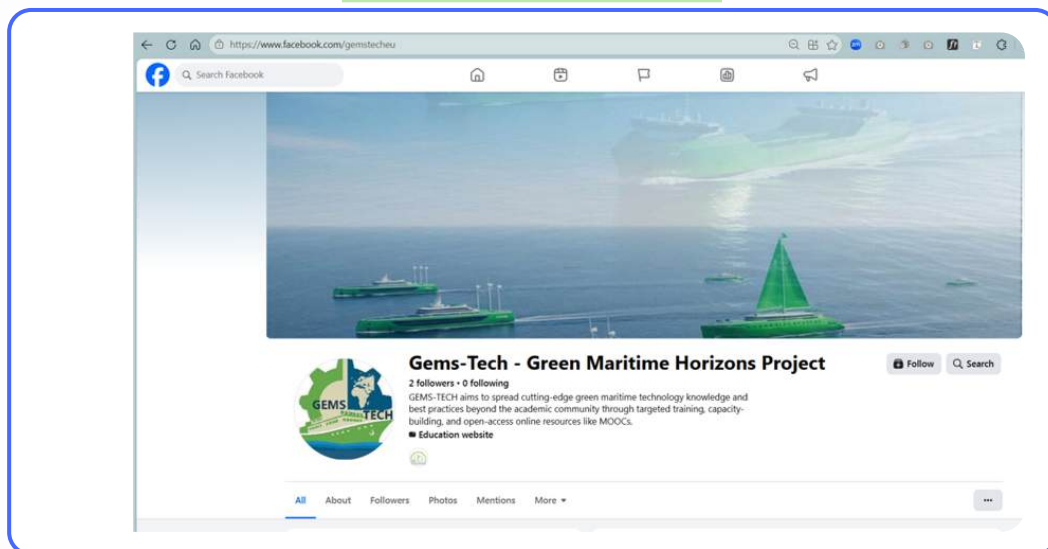


WP3 – Advanced Maritime MOOCs (Massive Open Online Courses)

OBJECTIVES:

- To develop and pilot advanced online courses (MOOCs) based on EU experience and Egyptian and Kenyan maritime industry needs;
- To promote industry active participation in co-design of the online courses;
- To create upskilling paths in Higher education and promote use of microcredentials;
- To promote woman employability in maritime sector;
- To establish knowledge transfer and collaboration between European and Egyptian and Kenyan universities.

Establishment of the GEMS-TECH Facebook Page



Dissemination and communication activities

As part of the project's dissemination and communication activities, the GEMS-TECH **Facebook page** was **established** to enhance online visibility, promote project activities and achievements, and engage with a wider audience beyond the academic community. The page serves as a digital communication platform for sharing updates, green maritime technology knowledge, best practices, training opportunities, and open-access learning resources, including MOOCs. It also supports the project's commitment to knowledge exchange, capacity building, and the promotion of sustainable innovation in the maritime sector.



Our Facebook: _____



<https://www.facebook.com/gemstecheu>

Digital Visibility, Knowledge Dissemination & Sustainability

Website Development & Digital Visibility

The GEMS-TECH Project **website** was established as a central digital platform to enhance the project's online visibility and communicate its objectives, activities, achievements, and outcomes. It provides project partners and stakeholders with accessible information about the initiative and its contribution to green maritime technologies and sustainable maritime education.

Project Activities & Achievements

The website serves as a digital repository for documenting project implementation and sharing updates on key activities, including stakeholder engagement meetings, workshops, training programmes, conferences, and partner collaboration. Through news articles, event reports, photographs, and other multimedia content, it provides a record of project milestones and achievements.



Stakeholder Engagement & International Collaboration

The website supports communication and knowledge exchange among participating institutions and stakeholders in Kenya, Egypt, and Europe. By sharing project updates and collaborative initiatives, it helps strengthen partnerships, encourage stakeholder participation, and promote cooperation in sustainable maritime education and innovation.

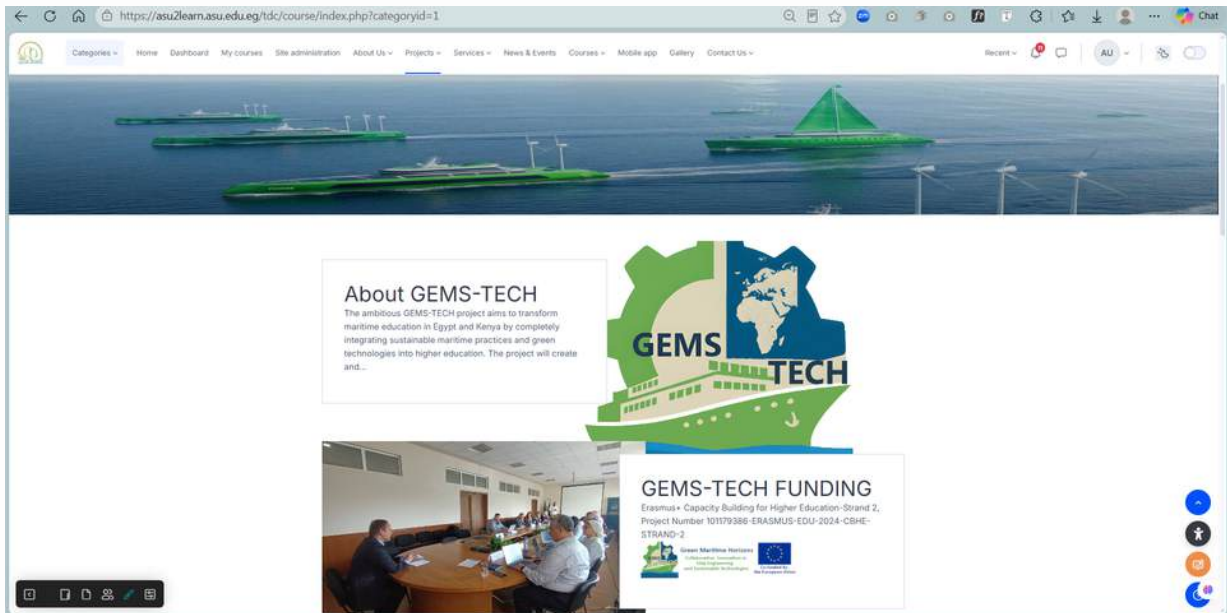
Knowledge Dissemination & Learning Resources

The platform facilitates the dissemination of project outputs and knowledge resources, including newsletters, publications, training materials, and educational content. These resources help extend the reach of GEMS-TECH beyond the project consortium, enabling researchers, students, educators, policymakers, and industry professionals to benefit from the project's outcomes.

Sustainability & Long- Term Impact

The GEMS-TECH website provides a foundation for the continued visibility and accessibility of project results. Maintaining and updating the platform, publishing relevant outputs, and sharing project achievements will support long-term knowledge exchange and help sustain the project's impact beyond its implementation period.

Digital Infrastructure — TMS/LMS (Moodle) Phase One



To guarantee long-term educational sustainability beyond physical classroom sessions, the development of an open-access Learning Management System (LMS / TMS) using the Moodle core platform was initiated.

Action Steps



Develop a MOOC

Develop a MOOC platform with structured online courses on sustainable maritime engineering.



Offer certification

Offer certification programs to encourage participation.



live Q&A

Integrate live Q&A sessions, discussion forums, and interactive quizzes for engagement.



Promote the portal

Promote the portal through social media, academic networks, and conferences.



Digital Infrastructure — TMS/LMS (Moodle) Phase One



02

Number of course enrolments.

03

Course completion rates

04

Learner feedback & ratings

Phase One successfully finalized the core platform architectural layout:

01

02

03

04



Deployment

Full server installation complying with ASU's rigorous institutional IT and data privacy policies.



Identity System

UI customization reflecting GEMS-Tech branding.



RBAC (Role-Based Access Control)

Granular permissions structured for Administrators, Course Designers, Instructors, and Students.



Plugin Ecosystem Ready

Integration of SCORM packages for interactive eLearning objects, native video streaming components, interactive assessment tools (quizzes/rubrics), and multi-user discussion forums.

Digital Architecture & Course Scaffolding

Three fundamental pillars have been fully mapped into the LMS file directory structures and are prepared for immediate multimedia instructional layout injection:
[GEMS-TECH Moodle Root]

01



Mooc 1

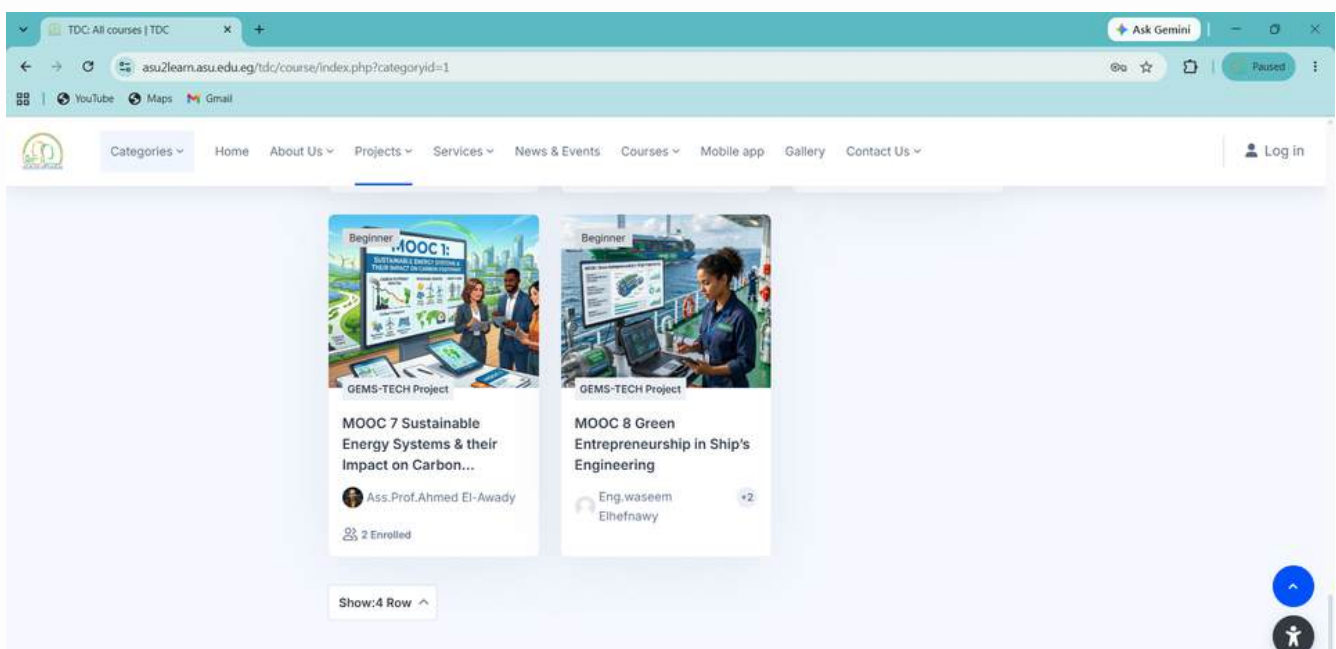
Sustainable Energy Systems & their Impact on Carbon Footprint)

03



Mooc 2

Green Entrepreneurship in Ship's Engineering)



JUN 2026

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Location:

AASTMT, Abu Qir
Campus, Alexandria,
Egypt

**First Egyptian
at an**

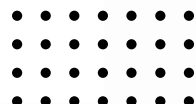
**Local Green Port Hub
Workshop**

GREENMEDPORTS



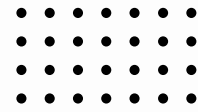
Date: 29 April 2026

Green Maritime Horizons (**Gems-Tech**)
Collaborative Innovation in Ship Engineering
and Sustainable Technologies



Co-funded by
the European Union

Activity Description



29 April 2026

AASMT represented the GEMS-TECH project during the First Egyptian Local Green Port Hub Workshop, organised under the GREENMEDPORTS project on 29 April 2026.

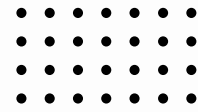


OVERVIEW



The workshop brought together representatives of port authorities, shipping and logistics companies, government bodies, and academic and research institutions. Discussions addressed **port decarbonisation, energy efficiency, alternative marine fuels, carbon-footprint assessment, smart-port technologies and maritime sustainability.**

First Egyptian Local Green Port Hub Workshop – GREENMEDPORTS



Relevance to WP4 – Dissemination & Sustainability

AASTMT's participation provided an opportunity to raise awareness of GEMS-TECH, exchange relevant knowledge and strengthen connections with maritime stakeholders and complementary European-funded initiatives.

complementary European-funded initiatives. The activity contributed to WP4 objectives through external project representation, cross-project networking and knowledge exchange, supporting the visibility and longer-term sustainability of GEMS-TECH results.

