



Modernizing and harmonizing maritime education in Montenegro and Albania – MArED

Institutional monitoring visit

**University of Montenegro – Maritime faculty Kotor
1st July 2017**

Coordinator, Prof. dr Danilo Nikolic

Project details

Call:

TEMPUS IV – 6th Call

Type of a project:

Joint Project (Multi - country)

Grant applicant/Project Coordinator:

University of Montenegro / Maritime faculty Kotor

Title of the Project:

**Modernizing and harmonizing maritime education in Montenegro and Albania -
MArED**

Project reference number:

544257-TEMPUS-1-2013-1-ME-TEMPUS-JPCR

Duration:

01/12/2013 – 30/11/2017

Project Funding:

**Max. amount of Project Grant
EU contribution in amount of
Co-financing in amount of**

**EUR 1.154.778,99
EUR 1.039.301,08
EUR 115.477,91**

Project Summary

- The main objective of MArED project is to overcome a problem of competent and qualified human resources in maritime sector in Montenegro and Albania.
- It will be achieved through the modernization and harmonization of educational and training system in accordance to IMO and STCW Convention requirements.
- MArED project is realized through:
 - ✓ revision of existing (2 UoM) and development of new (1 UoM) undergraduate maritime study programmes for students and IMO model courses (LLL) for seafarers (6 UoM),
 - ✓ (re)accreditation and start-up of curricula,
 - ✓ improving infrastructural and teaching resources,
 - ✓ establishing a mobility scheme between EU and PC universities,
 - ✓ fostering cooperation between academia and maritime sector.

Project's content

MArED project strongly follows:

- The Bologna process principles and recommendations,
- The Lisbon Strategy,
- National education legislation,
- The European Maritime Strategy (2008-2018),
- IMO requirements for education and training (STCW Convention)

Project involves:

- 3 state universities from MNE and ALB with numerous and versatile specialists
- 9 relevant stakeholders (ministries, shipping companies, ports, maritime authorities, SMEs and NGOs).
- 5 EU partners: ES, SI, RO, CRO (responsible for advising and monitoring of harmonization and modernization processes) and AT (experience in e-learning)

Summary of Workpackages

No. of Work Package	Type of Work Package	Title of Work Package
WP.1	Development	Revision of existing and development of new undergraduate study programmes
WP.2	Development	Upgrading teaching materials and methodology, and (re)training of teaching staff
WP.3	Development	(Re)accreditation of undergraduate study programmes
WP.4	Development	Introduction of IMO model courses (LLL) for training of seafarers
WP.5	Exploitation	Implementation of undergraduate study programmes and IMO model courses
WP.6	Dissemination	Dissemination of study programmes and IMO model courses
WP.7	Quality plan	Quality control and monitoring
WP.8	Exploitation	Project sustainability
WP.9	Management	Project management

Expectations vs. Results

With focus on the UoM

WP1 - Revision of the existing and development of new undergraduate study programmes

- UoM with the great support of the EU partners succeeded to prepare harmonized curricula for three undergraduate study programmes: Navigation and Maritime Transportation, Marine Engineering and Marine Electrotechnics and Electronics.
- This further lead to the achievement of wider objectives: harmonization of study curricula in line with the latest STCW requirements up to 2017 which will provide UoM to become recognized maritime high education institution and Montenegrin seafarers to obtain internationally approved diplomas and certificates.
- All the foreseen outcomes and expectations are realized as it is initially foreseen.

WP2 - Upgrading teaching materials and methodology, and(re) training of teaching staff

UoM together with other involved partners realized all planned activities which resulted in following:

- Retraining of teaching staff in Barcelona at the Nautical Faculty in November 2014;
- Training of PC representatives for e-learning tools usage at the Maritime Faculty in Kotor in February 2015;
- Training of PC representatives for usage of purchased simulators and equipment organized by providers;
- Providing simulators and laboratory equipment for practical training of students and seafarers;
- Development of teaching materials and manuals for education and practical exercises;
- Establishment of Moodle platform and creation of Moodle courses as a basis for LLL development at the Maritime Faculty;
- Assisting in development of video materials for practical training on simulators;
- “Train-the-Trainer” course in October 2016 for UoM and UV representatives organized by UL FPP.

WP3 - (Re)accreditation of undergraduate study programmes

- UoM started with the preparation of accreditation documents in October 2014. Until the June 2016 UoM team prepared and submitted five versions of accreditation elaborates to the University Senate.
- Accreditation documentation consists of elaborates which explains in details main goals of revised study programmes, comparison with other similar maritime academic curricula, overview of necessary human and educational resources and other relevant information.
- Accreditation documentation is finally accepted on 21st July 2016 and procedure will be conducted as a part of the reaccreditation process on the University.
- New undergraduate study programmes will start up from September 2017.

WP₄ - Introduction of IMO model courses (LLL) for training of seafarers

- UoM assisted UL FPP in generating detailed work plan for the implementation of WP₄.
- On the Internal QC monitoring visit on 21st October 2015 it was discussed about the Guidelines for PCs and implementation methodology.
- UoM considered list of proposed IMO model and decided to accredited 6 IMO model courses for safarers.
- Three of them already started with realization - Company Security Officer, Security Training For Seafarers With Designated Security Duties, Security Awareness Training For All Seafarers and Training Course For Instructors.
- UoM applied to the Bureau Veritas for offer for accreditation of identified courses, prepared documentation and it is planned that courses start up until the end of project.

WP5 - Implementation of undergraduate study programmes and IMO model courses

- Due to the postponed deadlines for the implementation of WP1 and WP4 regarding the UoM there are no results related to the WP5.
- Results related to the DEV.5.1, 5.2, 5.3 and 5.4 are expected to be tangible until the end of project.
- Preparation procedures already started and until the end of July enrollment procedures will be done.
- The admission and selection processes are strongly defined by the University internal documentation. The Quality Board will monitor the admission process which is expected to start during the second part of July.
- During the first 3 months of semester the lessons will be partially performed by EU teachers. It is expected that at least 5 teachers from EU participate in introductory lessons. Other EU teachers will participate in lessons by established tele-link. It is also expected that experts from industrial institutions take part in introductory lessons.
- At the end of this deliverable EU teachers directly involved in the Dev.5.3 will develop the evaluation report on the programmes start-up as well as advise on successful continuation of programmes. Maritime sector representatives and professional seafarers will provide the initial feedback on the quality of IMO model courses started up.

WP6 - Dissemination of study programmes and IMO model courses

From the start up of the MAREd project UoM emphasized the significance of the dissemination of the project and in that sense it is important to point out following:

- Development and maintenance of the project web site;
- Informing wider public about the MAREd project on the Kick-off Meeting;
- Participation on the MECO Conference in Budva 2014 and Bar 2016;
- Participation on the Parking day in Kotor in September 2014;
- Promotional visits to the high schools in Montenegro and regional countries;
- Presentation of Mared at Conference in Singapore
- Papers published
- Organization of Info days at the Maritime Faculty;
- Participation on the Educational Fair 2016 as a part of the promotional activities;
- Dissemination of the project on the University and Faculty web site;
- Inter-project coaching with other project representatives on the level of the University;
- Alumni database development.

WP7 - Quality control and monitoring

UoM actively participates in the implementation of the WP7 and in terms of the last project period we contributed achievement of following results:

- Establishment of the Quality Control Steering Committee;
- Participation in the Committee decision making process;
- Creation of the QCSC working methodology;
- Realization of Internal QC assessment and organization of monitoring visit for EU partners in October 2015;
- Development of Internal QC Checklist and submission of electronic version;
- Creation of Internal Reports;
- Active participation in the QCSC meeting in Constanta;
- Providing information for Internal QA for 2016 to CMU representatives;
- Assisting CMU in preparation of the plan for External QC evaluation to be done during the next year.

WP8 - Project Sustainability

Sustainability of the MAREd project is achieved by the following activities:

- Accreditation of the new undergraduate study programmes and IMO model courses;
- Enrollment of the next generations of the students and seafarers;
- Usage of modernized simulators, laboratories and workshops in the education and training;
- Introduction of new teaching methods – beginning of LLL in maritime education;
- Dissemination of the project results and outcomes;
- Publishing articles related to the MAREd project achievements;
- Fostering cooperation with industrial representatives – realization of practical trainings, improvement of engagement policy for graduated students and applying for future projects;
- Networking with leading maritime companies for embarkation of Montenegrin seafarers and graduated students – cooperation with Princess Cruises.
- Enhancing transfer of positive practice among students and staff on maritime academic partner institutions.

WP9 - Project management

As the Coordination institution UoM is mainly responsible for overall project management during the last three years and it is realized through:

- Establishing and participating in the project management bodies: Project Advisory Board, Project Steering Committee and Dissemination and Sustainability Steering Committee. Assisting in preparation of reports and other documents;
- Designation of the Project Administrator position aiming to facilitate management process;
- Establishing project management system (official e-mail and dropbox account), checking project documentation;
- Participation on 19 meetings up to now, organization of the meetings, preparation of Agendas, after meeting documents etc;
- Daily communication with the project partners;
- Support and assistance in all project related activities;
- Discussing about management and financial aspects of the project on every project meetings;

Correspondence with programme managers in Brussels aiming to solve project issues and problems and informing consortium about the communication.

Impact at individual level (1)

STUDENTS AND SEAFARERS will be able to:

- Acquire internationally recognized diplomas and certificates;
- Gain professional knowledge and practical skills according to the latest IMO STCW requirements for seafarers;
- Participate in created mobility scheme among maritime academic partner institutions with corresponding study programmes;
- Collaborate and establish networking with student organizations from EU and PC institutions.

ACADEMIC STAFF REPRESENTATIVES will be able to:

- Improve knowledge and expertise in different maritime fields as well as to exchange experience and know-how;
- Modernize teaching methods and materials, introduction of new teaching tools;
- Collaborate in scientific domains with colleagues from EU and PC institutions;
- Participate in teaching staff mobility programmes (ERASMUS+ or similar).

Impact at individual level (2)

NON-ACADEMIC INSTITUTION REPRESENTATIVES will be able to:

- Improve skills and transfer know-how;
- Participate in teaching process and assist in creation of practical exercises;
- Collaborate in sense of management, administrative, financial aspects of funding programmes and future cooperation initiatives.

Impact at institutional level (1)

AT THE LEVEL OF THE UNIVERSITY OF MONTENEGRO:

- Revision and harmonization of two existing undergraduate study programmes Navigation and Maritime Transportation and Maritime Engineering (180 ECTS) and delivery of new ECTS catalogues;
- Development of one new modernized undergraduate study programme Maritime Electrotechnics and Electronics and delivery of new ECTS catalogues;
- Development of new modernized training courses (6 in total) for seafarers at UoM and UV, as a new way of seafarers knowledge and skills improvement through LLL (lifelong learning) programs, and delivery of new course manuals;
- Accreditation of undergraduate study programmes and IMO model courses at UoM and UV, and delivery of accreditation documents;

Impact at institutional level (2)

- Start-up and implementation of new harmonized undergraduate study programmes and IMO model courses at UoM;
- Update existing and build new teaching resources and methods at PC HEIs, through staff training at EU partner institutions and introduction of e-teaching methods, and delivery of new instruction manual;
- Update existing and provision of new equipment for student and seafarer practical exercises at PC HEIs;
- Improved existing and introduction of new teaching methods through trainings and workshops of PC teaching staff.

Impact at national and international level (1)

- Establishing permanent and sustainable collaboration platform among governmental bodies, academic and industry sector in Montenegro and Albania;
- Establishing permanent and sustainable mobility scheme between EU and PC partners;
- Establishing network between EU and PC partners for new EU funding programs;
- Fostering cooperation between maritime academia and industry and service sectors in sense of know-how transfer;
- Interproject coaching with DEVCORE Tempus project in regard to introduction of learning outcomes for new and harmonized curricula;
- Knowhow transfer among PC and EU partners regarding to administrative and managerial project activities including non-teaching staff mobility;

Impact at national and international level (2)

- Established networks among all beneficiaries of MAREd project such as: students and seafarers, recruitment agencies and other SMEs, maritime companies, port authorities, NTOs, national maritime authorities, ministries and other stakeholders;
- Follow up through HERIC project **“International certification of maritime education in Montenegro - EDUMAR”** and IPA IV project **“Knowledge transfer for increased maritime competences in Montenegro”** and **ERASMUS+ mobility** programs.



Thank you for your attention