



ELEGANT



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

ELEGANT : PROGRESS AND IMPACT AT MUBS

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NATIONAL EXPLOITATION SEMINAR

MARCH 7, 2023

ABOUT MUBS

- Modern University for Business & Science- MUBS is a private university in Lebanon. It was founded in the year 2000 and now has 4 schools (including CS).
- MUBS has been accredited recently by the EVALAG Accreditation Agency.
- EVALAG is a German based quality assurance agency in Higher Education for excellence in quality management and organizational development.



- MUBS is ranked among the top 200 universities in combating poverty, and in gender equality worldwide by THE Impact Rankings 2021 and 2022.
- MUBS is particularly proud to be ranked 1st in Lebanon in Gender Equality.
- MUBS is a HE Leader in internationalization with prestigious partnerships in the USA including Stanford University, East Carolina University and Princeton and is a partner in many EU funded projects (including ELEGANT)



ENTERPRISE SURVEY

- As part of the ELEGANT Erasmus+ project activities, a survey was developed in 2020 to study current knowledge and skill gaps between companies' requirements and IT graduates acquired skills (Sample Size : 100 Companies)
- 75% of companies in the sample maintained that there exists a gap between graduates' knowledge and skills and their own needs. Cloud computing, AI, cybersecurity and programming were areas in which companies felt IT graduates have deficiencies.
- In addition to the above gaps of technical nature, the survey confirmed that there is also a gap in terms of softer skills such as leadership skills, problem-solving skills, etc. which universities should take note of.

PROGRESS AT MUBS

- Establishment of the liaison office at MUBS in 2020 and appointment of a liaison officer
 - MUBS liaison office achievements:
 1. Signing 35 MOUs with prestigious IT companies.
 2. Finding 65 placements for IT students and contributing to monitoring their progress while at companies.
 3. Facilitating students' access to companies in order to complete their senior projects with the support of mentors from the industry and preparing a corresponding database.

PROGRESS AT MUBS

- MUBS liaison office achievements (continued):

- 4. Organizing and preparing webinars and inviting enterprise staff to deliver lectures at MUBS since 2020.

- Capacity building for MUBS IT teaching and technical staff at EU partner universities to raise their level of knowledge.

COMPUTER SCIENCE CURRICULUM CHANGE AT MUBS

- The BS in Computer Science program requirements are 94 semester credits hours divided as 21 credits General Education Requirements (including 3 Electives), 42 credits Computer core courses, 6 credits major elective courses and 21 credits computer major courses in addition to 4 credits for the internship and senior project. Each course in the program (including the senior project) is valued as 3 credits (equivalent to 6 ECTS).
- The language of instruction in all courses at the computer science program is English. The average class size in all computer science courses is 15 students.

COMPUTER SCIENCE CURRICULUM CHANGE AT MUBS

- In 2021 , A revision of the Bachelor of Science in Computer science curriculum at the Modern University for Business and Science was completed based on the results of the enterprise survey, the training implemented by EU colleagues, a benchmarking study, and the advisory board (which includes representatives from ICT companies) recommendations.
- In 2022, the revised program was shared with the SCSL for industry and peer feedback.

COMPUTER SCIENCE CURRICULUM CHANGE AT MUBS

The main program changes included:

Adding the following courses:	Enhancing/modifying the following courses:
1. Introduction to Cybersecurity	5. Programming I
2. Introduction to Data Science and AI	6. Database systems
3. Cloud Computing and Big Data	7. Mobile Application Development
4. Sustainable employability skills	8. Web Programming (New Course Title: Web Client Programming)
	9. Object Oriented Programming (New Course Title: Advanced Java Programming)
	10. Python Programming (New Course Title: Python for Data Science)

ELEGANT PROGRESS

- Two IT Labs funded by the ELEGANT project were established at MUBS as a means of providing the latest equipment for students and staff.
- The establishment of the labs contributed to updating teaching & learning and enhancing IT graduates employability in line with the main project objectives.

ELEGANT PROGRESS

Continuous dissemination at MUBS

- Continuous dissemination at MUBS serves as a threefold purpose of **raising awareness** about the existence and nature of the Elegant project, **disseminating its results** as they are achieved and exploiting results in further initiatives through **involvement of stakeholders**.
- Together, these three outcomes of dissemination form pillars of sustainability of Elegant activities at MUBS and pave the way for its maximum reach.

ELEGANT IMPACT

- The impact of the project is perceived to be tremendously positive by MUBS in terms of upgrading the quality of its staff and curriculum.
- Academic and technical staff were trained on using new teaching methodologies, updating curricula, and organizing training courses for relevant stakeholders.
- New skills were acquired as a result of the ELEGANT Erasmus+ project activities that will contribute to the employability and better readiness of students to the job market.
- Long-term collaborative relationships between MUBS and the IT enterprises were enhanced based on the ELEGANT activities.

ELEGANT IMPACT

- Industry partnerships allowed MUBS to expose its students to real-time industry internships/jobs.
- Project support for the modernization and internationalization of MUBS in terms of new enterprise-oriented teaching and learning and updating the curriculum to become internationally compatible with EU standards.



Thank You

For Your Attention!