

SUPPORTING THE EDUCATION OF OUR FUTURE LEADERS THROUGH RESEARCH

Education, applied research, transfer Maya Kharrat Sarkis

Transforming Higher Education Workshop Friday, September 6, 2019



USJ

Who are we?

A private university founded in 1875, member of 9 international associations

- √ 13 faculties, 14 institutes and 5 higher schools
- ✓ 4 university chairs and 1 professional center of mediation
- ✓ 12 000 students, 2000 lecturers and 500 administrative staff
- √ 19 research centers, 31 laboratories, 3 research units, 1 observatory and 1 tissue bank
- ✓ More than 350 international agreements
- ✓ 5 campuses in Beirut, 3 regional campuses, 1 center in Dubaï and 1 office in Paris
- ✓ Technology poles (PTS, Berytech...)





École supérieure d'ingénieurs agroalimentaires

École supérieure d'ingénieurs d'agronomie méditerranéenne

ESIA-M

Who are we? Faculty Professors/researchers

History and mission

- ✓ Founded in 1979 in the Faculty of Engineering of USJ
- ✓ Mission to contribute to the development of food value chain sector in Lebanon and the region through education, research and technology transfer







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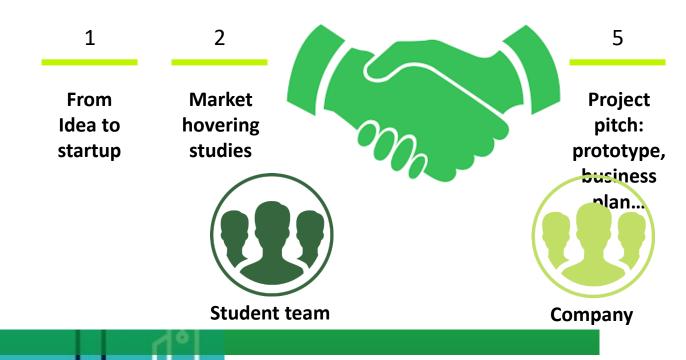




INNOVATION AND ENTREPRENEURSHIP COURSES

3rd year curriculum

5 steps innovation project:





PROFESSIONAL INTEGRATION

5th year curriculum of ESIA

6 months training within the enterprise

List of courses to be chosen by STUDENT and COMPANY:

- Integration reporting
- Industrial processes
- Supply chain management
- Quality management
- Industrial residues management
- Management and marketing strategy
- Unitary operation
- Energy management
- Automatisation and GRAFCET
- Packaging
- Statistical management of processess







Optimization of Arak distillation process considering distillates yield and quality



Optimi techni

vest for

NO FEES!



Increase of line efficiency on 4.75liter oil production line while maintaining the product quality and respecting food safety standards



APPLIED RESEARCH



















TECHNOLOGY TRANSFER AND COMMUNITY SERVICE

Lab analysis Expertise



LAB ANALYSIS

Food analysis

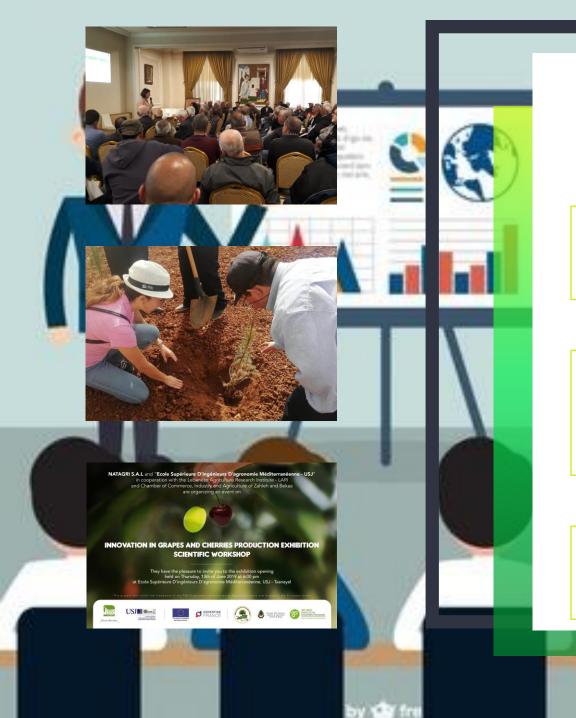
- Honey, olive oil, wine, bread...
- Chemical and authentication parameters

Soil and water analysis

- Physio-chemical soil analysis
- Physio-chemical water analysis
- Soil and plant hydric state

Fruit and vegetables analysis

- Organoleptic measures (sweetness, color, firmness...)
- Post-harvest measures (gas equilibrium)



EXPERTISE

Consultancy

Ongoing national and international projects

Professional trainings

- To producers, engineers, scientists...
- Ongoing national and international projects

Conferences and seminars

• To producers, engineers, scientists...



THANK YOU

ESIA-M - USJ

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