





ELEGANT

Enhancing IT Graduates Employability through Skills
Development & Curricular Innovation

Webinar

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Engineering Education & Employability







Integration into Curriculum:

BAU Computer Engineering Program (2019)



<u>Design Perspective 2</u> Key **Characteristics** of

Computer Engineering

Graduates

System Level Perspective

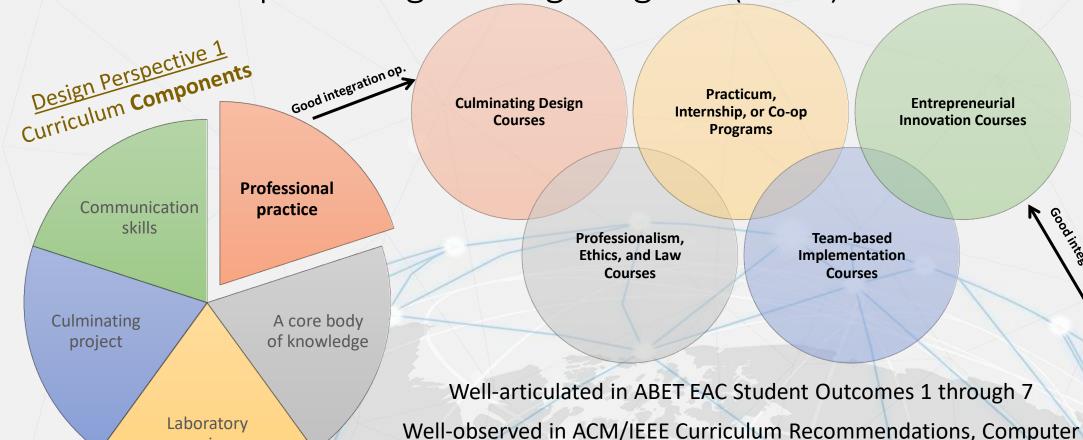
> Depth and Breadth

Design Experiences

> Use of Tools

Professional Practice

Communication Skills



experience

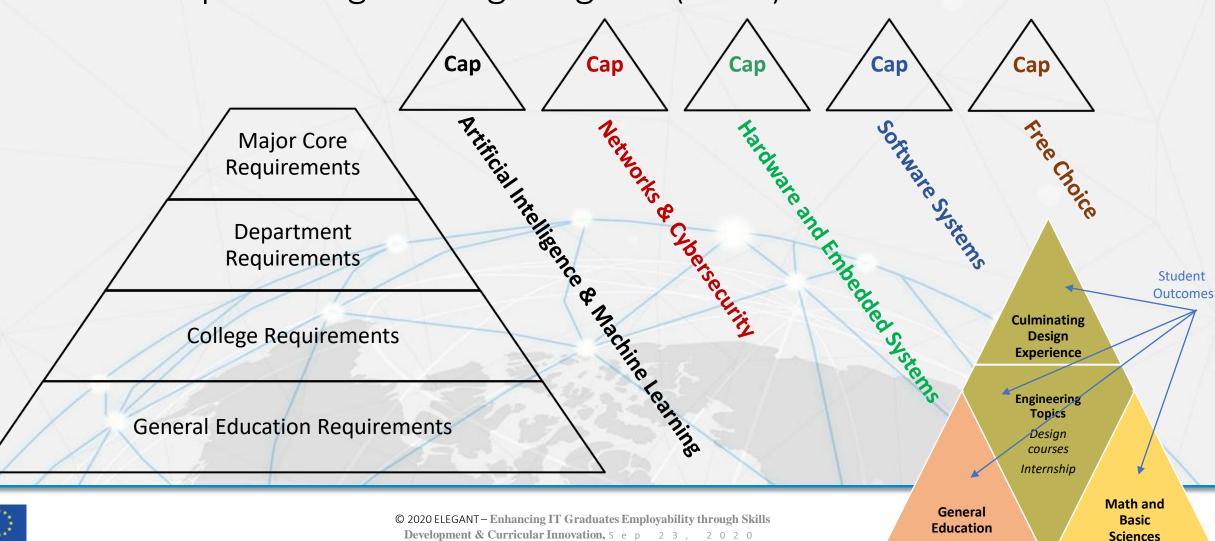
Engineering, 2016.





Capstone and Course Design Projects:

BAU Computer Engineering Program (2019)









BAU Computer Science curriculum development to embed employability skills

B.Sc program (100 Credit hours):

- Beirut (137 students),
- Debbieh, (48 students)
- Tripoli (68 students)

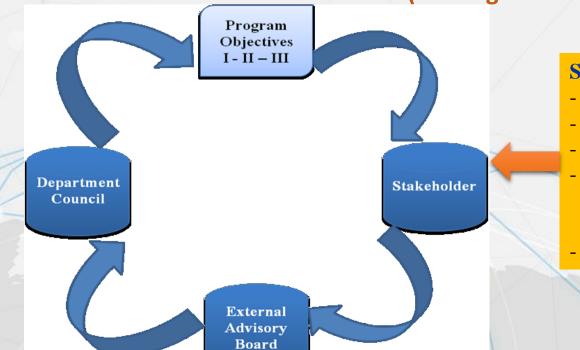
 Total: 253 active CS students

External Advisory Borad:

Members represent employers in the market and discuss the PEOs and raise important issues to be looked forwardly by the department

B.Sc. Computer Science Program accredited by ABET since 2013

Process for Revision of CS curriculum (CS Program Objectives)



Stakeholders:

- Current undergraduate students
- Faculty members
- **Alumni** of our program
- National and regional <u>employers</u> in the field of computer science
- University administration







Final Year Project industry-related ideas initiatives BAU Computer Science Program



Final Year Project (one year): Two summative courses that should include all topics of fundamental undergraduate courses.

Internship: Collaboration between BAU and Different industries (as objective)

- Provide students with the opportunity to participate in real-life software development projects
- Give students a better chance for finding software development jobs after graduation.
- Pave the road for large and much needed student-oriented research work in Lebanon.
- Support innovation and capitalize on it
- More than 90% of CS graduate students are now working on the domain of IT in Lebanon and outside
- One CS student established a his own IT company (BAU the Center for Entrepreneurship)











Integration of online courses/certificates in computer science curriculum BAU Computer Science Program

BAU Center for Continuing and Professional Education.

Short courses (CCPe Certificate)

- Android design and network programming
- Mobile Maintenance
- Evolution of the G technologies: 3G/4G/LTE
- BlockChain
- Data Science

Professional Courses

- CCNA
- ITE
- CCNA Security
- IoT fundamentals
- Cybersecurity Essential



