Round table EDUCATION

Outline

Education at UAB and UB (Bachelor)

Exchange possibilities

Previous years

•How to improve?

Education at UAB (Sciences Faculty)

Degrees (4 courses and 240 ECTS)

Facultat de Ciències UAB

- Applied Statistics
- Chemistry
- Computational Mathematics and Data Analytics
- Environmental sciences
- •Geology
- Mathematics
- Nanoscience and Nanotechnology
- Physics



Double degrees

- Environmental sciences+Geology (5 courses and 342 ECTS)
- Physics+Mathematics (5 courses and 330 ECTS)
- Physics+Chemistry (5 courses and 343 ECTS)

https://www.uab.cat/web/estudiar/graus/graus/tots-els-graus-1345722992452.html

Education at UB (Physics, Chemistry)



Degrees (4 courses and 240 ECTS)

- Chemistry
- Chemistry engineering
- Physics
- Material engineering
- Telecommunication engineering

Double degrees

Physics+Mathematics (5 courses and 318 ECTS)

http://www.ub.edu/fisica/queoferim/en/index/grau.htm https://www.ub.edu/portal/web/chemistry

Exchange possibilities

ERASMUS + (till 2020-2021)



- Students: Bachelor, Master, PhD
 - students enrolled in European universities
 - from 3 months to a full academic year
 - the recognition of studies will be made according to the Learning Agreement that the student has agreed with the coordinator of exchange before leaving



⇒ Staff

- to spend time teaching at an education institution abroad
- from 2 days to 2 months but funding only for maximum 5 days
- minimum of 8 hours of teaching/week for periods between 2 and 5 days.
- combined with training, minimum of 4 hours of teaching/week

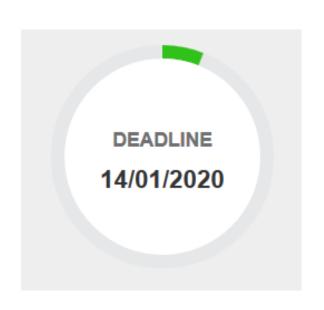
Exchange possibilities

Innovative training networks

- **European Industrial doctorates**
- **European Joint doctorates**
- European Training networks







https://ec.europa.eu/research/participants/da ta/ref/h2020/other/guides_for_applicants/h20 20-guide-appl-msca-itn_en.pdf

Exchange possibilities

Cotutelle



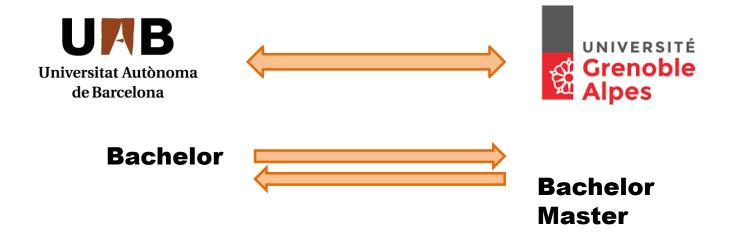


International PhD joint supervision

- the PhD students will be assigned a thesis supervisor at each of the two centres subscribing to the agreement.
- •Agreements may only be signed within the first year of research (the approximate time of processing the joint supervision is six months)
- •Once the doctoral candidate has successfully defended the thesis written under cotutelle, he/she is entitled to two PhD degree certificates, one from each centre, as agreed by both institutions.

https://www.uab.cat/web/study/phds/cotutelle -international-joint-supervision-1345680701522.html

Previous years



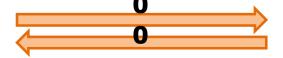
- •Since 2016/17 we have two Erasmus + agreements for Physics and Geology studies.
- •All agreements are for 2 students with a semester stay (or in principle, 1 student with an annual stay).
- •These two agreements are valid until the end of the academic year 2020-21.
- •Currently, there are no teaching agreements for staff but they can be opened.

Previous years





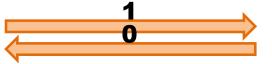
2016-2017



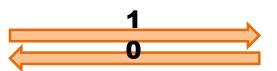
2017-2018



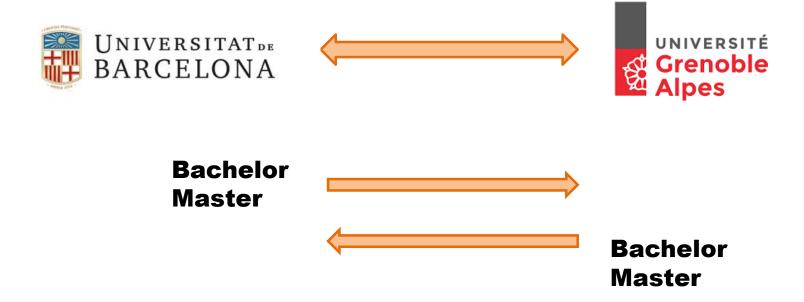
2018-2019



2019-2020



UB (Physics Faculty)



 UB has one Erasmus + agreement for Physics but there has been no student exchanges in the last 3 years

How to improve?

Possible reasons?

- Language, English speaking countries are very demanded
- Geographical proximity

Possible solutions?

High quality specific programme



Ideas?

Comments?

Suggestions?

Experiences?

Education at UAB (Sciences Faculty)

Masters (I)

- Advanced Nanoscience and Nanotechnology
- Electrochemistry, Science and Technology
- Erasmus Mundus Enginyeria Fotònica, Nanofotònica i Biofotònica / European Master in Photonics
 Engineering, Nanophotonics and Biophotonics
- Erasmus Mundus in Environmental Studies Cities and Sustainability
- Erasmus Mundus in Mathematical Modelling in Engineering: Theory, Numerics, Applications
- Geology and Geophysics of Reserves
- High Energy Physics, Astrophysics and Cosmology





https://www.uab.cat/web/estudiar/mast ers-i-postgraus/masters-oficials/tots-els-masters-1345722994212.html

Education at UAB (Sciences Faculty)

Masters (II)

- History of Science: Science, History and Society
- Industrial Chemistry and Introduction to Chemical Research



- Mineral Resources and Geological Hazards
- Modelling for Science and Engineering
- Paleobiology and Fossil Record
- Photonics
- Soil and Water Management





https://www.uab.cat/web/estudiar/masters-i-postgraus/masters-oficials/tots-els-masters-1345722994212.html