

Màster Innovació i Emprenedoria en Enginyeria Biomèdica

5 Abril 2022



UNIVERSITAT DE
BARCELONA



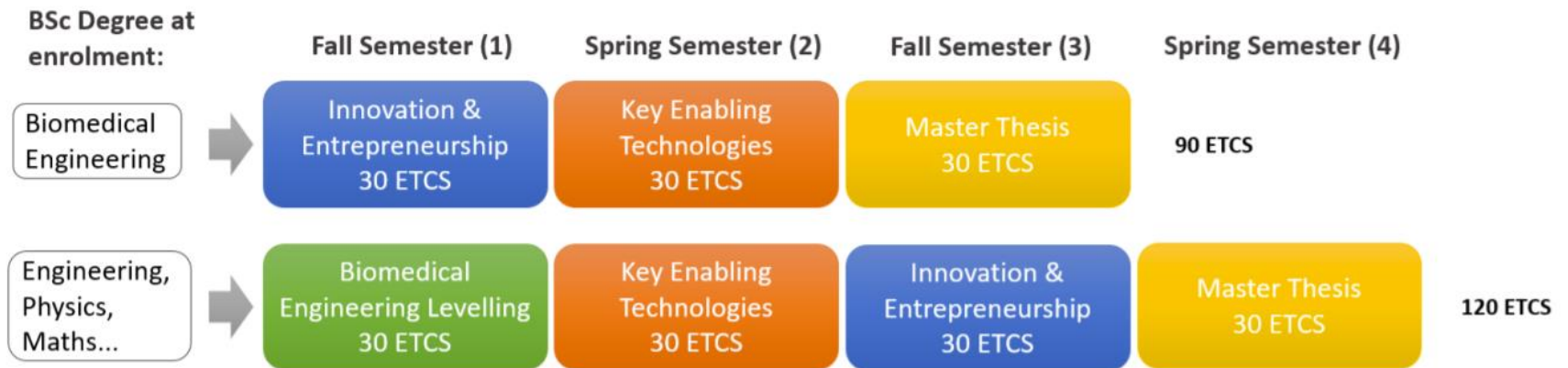
EIT Health is supported by the EIT,
a body of the European Union



Romén Rodríguez
romen.rodriguez@ub.edu

Informació General

- Màster **Interfacultatiu** (Física, Medicina i Economia i Empresa)



- Acreditat positivament davant l'AQU (Març 2021)



Master Currículum

Curriculum at UB

Departments and Schools:

Dept. of Economics. School of Economics and Business
 Dept. of Business. School of Economics and Business
 Dept. of Econometrics, Statistics and Applied Economy. School of Economics and Business
 Dept. of Biomedicine. School of Medicine and Health Sciences
 Dept. of Medicine. School of Medicine and Health Sciences
 Dept. of Electronics and Biomedical Engineering. School of Physics

Facultat d'Economia i Empresa

MODULE: INNOVATION, ECONOMY AND ENTREPRENEURSHIP – 1 semester 30 ECTS	
Mandatory courses	
Health economics	6 ECTS
Management of innovation and entrepreneurship in MedTech firms	6 ECTS
Elective courses – Economy of Innovation and Public Policy in the Biomedical Industry	
Microeconomic foundations of competitiveness	3 ECTS
Empirical Industrial Organization and Pharamaeconomics	3 ECTS
Public Policies and Health	3 ECTS
Elective courses – Creation of Companies, Organization and Strategy in the Biomedical Sector	
Creating and sustaining successful biomedical companies	3 ECTS
Strategy and biomedical technology	3 ECTS
Organization and management systems	3 ECTS
Elective courses – Commercialization and financing of Biomedical Innovation	
Business marketing and sales in the biomedical industry	3 ECTS
Financial management of biomedical firms	3 ECTS

Facultats de Física i Medicina

MODULE: KEY ENABLING TECHNOLOGIES FOR BIOMEDICAL ENGINEERING – 2 semester 30 ECTS	
Mandatory courses	
New frontiers in medical technology	6 ECTS
Medical devices: design and market regulations	6 ECTS
Elective courses – Data Science for Health	
Advanced biomedical signal processing	3 ECTS
Data processing for analytical instrumentation	3 ECTS
Advanced biomedical imaging	3 ECTS
Neuroimaging	3 ECTS
ICT and data science for personalized medicine	3 ECTS
Elective courses – Innovation in Tissue Engineering and Regenerative Medicine	
Advanced technologies for tissue engineering	3 ECTS
Advanced biomaterials for tissue engineering	3 ECTS
Organ-on-a-chip	3 ECTS
Organ biofabrication and regenerative medicine	3 ECTS
Elective courses – Design of Advanced Medical Technologies	
Wireless biodevices and systems	3 ECTS
Technologies for point of care	3 ECTS
Nanomedicine	3 ECTS
Machine learning	3 ECTS

Complements formatius

MODULE: BIOMEDICAL ENGINEERING – 1 semester 30 ECTS	
Optional leveling courses – BSc in Biomedical Engineering	
Chemistry	6 ETCS
Cellular Biology	6 ETCS
Informatics	6 ETCS
Structure and Functions of Systems: Musculoskeletal, Cardiovascular and Respiratory	6 ETCS
Structure and Functions of Systems: Nervous, Endocrine, Digestive and Immune	6 ETCS
Biostatistics	6 ETCS
Instrumentation and Biomedical signals	9 ETCS
Materials and Biomaterials Engineering	9 ETCS
Biomechanics	6 ETCS
Medical Informatics and Telemedicine	6 ETCS
Optional leveling courses – BSc in Electronics and Communications Engineering	
Informatics	6 ETCS
Mathematical Tools for Engineering	6 ETCS
Electronic Circuitry Analysis	6 ETCS
Communications Fundamentals	6 ETCS
Electronic Instrumentation	6 ETCS
Projects	6 ETCS
Optional leveling courses – BSc in Informatics Engineering	
Electronics	6 ETCS

Caràcter Innovador

- Caràcter Innovació i Emprenedoria ben marcat i amb resultats:

 benesit

<https://benesit.es/esp/>



<https://lucihs.com/>

 Laia

<https://www.laiacontigo.com/>

Qualud.

<https://qualud.com/<>

 karis

<https://www.karisdigital.com/>

- Forta component de Internacionalització (40 empreses TFM's, 10 estrangeres)

Caràcter Internacional

- o Forta component de Internacionalització (40 empreses TFM's, 10 estrangeres)

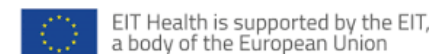


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instituto de investigación sanitaria



Màster impulsat en col·laboració amb EIT-Health

- Màster Technological Innovation in Health (MTIH): U. Sorbonne, U. Grenoble-Alpes, U. Lisboa, U. Polit. Madrid, U. Barcelona
- Label EIT-Health 2017-2022
- Programa d'èxit, actualment en tràmits de renovació



Erasmus Call Masters

<http://www.ub.edu/uri/estudiantsUB/erasmus.htm>



Innovation Days

StartUB!
UNIVERSITAT DE BARCELONA

Innovation Days

El iDay (Innovation Days) és una **iniciativa de EIT Health** dirigida per la **Universitat de Barcelona**.

Durant el programa els participants buscaran solucions a desafiaments de la indústria de la salut, proposats per [Bayer](#), [Siemens Healthcare](#), [Aigües de Barcelona](#) i [Qualud](#).

Compartiran l'experiència amb participants de diferents disciplines, orígens i antecedents, i disposaran de les eines i l'assessorament necessaris per a desenvolupar propostes innovadores.

A més, les millors propostes del iDay podran optar al:

- 1r premi: 400€
- 2a, 3er, 4t premi: 200€

22 octubre (12 a 14h), 28 octubre (16 a 18h)

ONLINE

Dedicació prevista per dia: 1h (horari flexible)

***Per a inscripcions en grup:** registrar-se individualment en el formulari d'inscripció i enviar un email a idaybarcelona@ub.edu indicant els noms del membres de l'equip.



An initiative of:



Organized by:



Partners:



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