DIGITAL SKILLS FOR HEALTH

The postgraduate course in digital health skills allows training in two distinct areas (tracks): T1-Specialization in Technologies for Digital Health or T2-Specialization in Health Data

Curricular Plan:

Core Courses for FCT Semester I- Common to tracks 1 and 2

Curricular Unit	ECTS	Type
Computational Numerical Statistics	6	Compulsory
Ethical, legal, and social aspects in health	6	Compulsory
Biostatistics I	3	Compulsory
Advanced Programming for Science & Engineering	6	Compulsory for students with basic training in health
Human Anatomy	6	Compulsory for students with basic training in engineering
Information Management in Health Systems	6	Compulsory
Entrepreneurship	3	Compulsory

Semester 2 curricular units for tracks 1 and 2

Curricular Unit	ECTS	Type
Epidemiology	6	Compulsory for tracks 1
Digital Instrumentation	6	Compulsory for track 2
Decision Support systems in healthcare	6	Compulsory for tracks 1 & 2
Elective Curricular Unit	6	Compulsory for track 1 & 2
Visualization and Data Analytics	6	Compulsory for track 1 & elective for track 2
Data Acquisition Systems	6	Compulsory for track 3 & elective for track 1
Bayesian Methods	6	Elective for track 1
Digital Systems test and development	6	Elective for track 2
Epidemiological surveillance and risk management	6	Elective for track 1
Health policies and systems	6	Elective for track 2
Human Physiology	6	Elective for tracks 1 & 2
Cyber-Physical Systems Integration	6	Elective for tracks 1 & 2

Semester 3 curricular units for track 1 and track 2.

Curricular Unit	ECTS	Type
Advanced Programming for Data Science and Engineering	6	Compulsory for track 1
Big Data in Health Sciences and Technologies	6	Compulsory for track 1
Sensorial Systems	6	Compulsory for track 2
Medical Imaging Methods	6	Compulsory for track 2
Multivariate Statistics	6	Elective for track 1
Data Modelling	6	Elective for track 1
National and European Legislation on the Use of Data	6	Elective for track 1
Forecasting Techniques	6	Elective for track 1
Personalized and precision medicine	6	Elective for track 1
Biosafety and Bioethics	6	Elective for tracks 1 & 2
Architecture for Systems Integration	6	Elective for track 2
Robotics	6	Elective for track 2
Medical devices	6	Elective for track 2
Sociology of Innovation	6	Elective for track 2
Health technology assessment	6	Elective for track 2