

Mestrado Integrado em Ciências Farmacêuticas FFUL

Integrated Master in Pharmaceutical Sciences FFUL

Curricular units	Work hours	Lectures	Practical	Laboratory	Tutorials	ECTS	Semester
Human Anatomy	140	28	21		31	5	Mandatory 1st Semester
Cell Biology	140	28	21		31	5	Mandatory /1st Semester
Pharmaceutical Botanic	84	28	21		31	3	Mandatory 1st Semester
Biology Laboratory	84			42	28	3	Mandatory 1st Semester
Mathematics	196	28	42		40	7	Mandatory 1st Semester
General Chemistry	196	28	42		40	7	Mandatory 1st Semester
Biostatistics	140	28	21		31	5	Mandatory 2nd Semester
Physics	168	28		28	54	6	Mandatory 2nd Semester
Histology and Embryology	140	28	21		31	5	Mandatory 2nd Semester
Analytical Chemistry	196	28	21	42	49	7	Mandatory 2nd Semester
Organic Chemistry I	196	28	21	42	49	7	Mandatory 2nd Semester
Biochemistry I	168	28		42	70	6	Mandatory 3rd Semester
Human Physiology	168	42	21		37	6	Mandatory 3rd Semester
Immunology	140	28	21		31	5	Mandatory 3rd Semester
Physical Chemistry	196	28	21	42	49	7	Mandatory 3rd Semester
Organic Chemistry II	168	28	42		40	6	Mandatory 3rd Semester
Bacteriology	196	28		21	66	7	Mandatory 4th Semester
Biochemistry II	168	28		42	40	6	Mandatory 4th Semester
Physiopathology	140	28	21		31	5	Mandatory 4th Semester
History of Pharmacy and Therapeutics	140	28	21		36	5	Mandatory 4th Semester
Instrumental Methods of Analysis	196	28	14	42	56	7	Mandatory 4th Semester
Molecular Biology	168	28	21		36	6	Mandatory 5th Semester
Pharmaceutics	196	28	21	42	49	7	Mandatory 5th Semester
Pharmacognosy	140	28		28	54	5	Mandatory 5th Semester
Pharmacology I	168	28	21		36	6	Mandatory 5th Semester
Virology	168	28		21	61	6	Mandatory 5th Semester
Pharmacology II	196	28	21	42	49	7	Mandatory 6th Semester
Haematology	112	14		21	25	4	Mandatory 6th Semester
Micology/Parasitology	168	28		21	61	6	Mandatory 6th Semester
Pharmaceutical Chemistry I	168	42	21		52	6	Mandatory 6th Semester
Pharmaceutical Technology I	196	28	42		70	7	Mandatory 6th Semester
Pharmaceutical Biotechnology	168	28		21	61	6	Mandatory 7th Semester

Curricular units	Work hours	Lectures	Practical	Laboratory	Tutorials	ECTS	Semester
Biopharmaceutics & Pharmacokinetics	168	28	42		40	6	Mandatory 7th Semester
Pharmaceutical Chemistry II	196	42	7	42	49	7	Mandatory 7th Semester
Pharmaceutical Technology II	196	28		42	70	7	Mandatory 7th Semester
Clinical Bacteriology Laboratory	112	28	14		28	4	Elective 7th Semester
Complementary Biostatistics	112	28	14		28	4	Elective 7th Semester
Bioinformatics	112	28	14		28	4	Elective 7th Semester
Biochemistry of Cell Death	112	28	14		28	4	Elective 7th Semester
Food Quality Control	112	28	14		28	4	Elective 7th Semester
Hospital Pharmacy	112	28	14		28	4	Elective 7th Semester
Immunopharmacology	112	28	14		28	4	Elective 7th Semester
Neurobiology	112	28	14		28	4	Elective 7th Semester
Nutrition and Dietetics	112	28	14		28	4	Elective 7th Semester
Laboratory Org. & Management	112	28	14		28	4	Elective 7th Semester
Project I	112	28	14		28	4	Elective 7th Semester
Clinical Biochemistry	140	28	21		36	5	Mandatory 8th Semester
Pharmacotherapy I	140	28	21		31	5	Mandatory /8th Semester
Public Health	112	28	28		54	4	Mandatory 8th Semester
Pharmaceutical Technology III	168	28	21		61	6	Mandatory 8th Semester
Toxicology	168	28	28	28	56	6	Mandatory 8th Semester
Dermopharmacy and Cosmetic	112		42		28	4	Elective 8th Semester
Clinical Pharmacokinetics	112		42		28	4	Elective 8th Semester
Human Genetics	112		42		28	4	Elective 8th Semester
Pharmacy Management	112		42		28	4	Elective 8th Semester
/R & D of Biopharmaceutics	112		42		28	4	Elective 8th Semester
Veterinary Medicinal Products	112		42		28	4	Elective 8th Semester
Food Microbiology	112		42		28	4	Elective 8th Semester
Nutraceuticals	112		42		28	4	Elective 8th Semester
Water Quality	112		42		28	4	Elective 8th Semester
Chemometrics	112		42		28	4	Elective 8th Semester
Radiopharmacy	112		42		28	4	Elective 8th Semester
Project II	112		42		28	4	Elective 8th Semester
Bromathology and Food Technology	140	28		21	61	5	Mandatory 9th Semester
Pharmaceutical Law and Ethics	140	28		21	31	5	Mandatory 9th Semester
Pharmacy Practice	140	28		21	31	5	Mandatory 9th Semester

Curricular units	Work hours	Lecture	Practical	Laboratory	Tutorials	ECTS	Semester
Pharmacotherapy II	140	28		21	31	5	Mandatory 9th Semester
Pharmacy Laboratory	168	7		28	40	6	Mandatory 9th Semester
Chemical Sensorial Analysis	112		42		28	4	Elective 9th Semester
Clinical and Analytical Chemistry	112		42		28	4	Elective 9th Semester
Microbiological Control of Pharmaceuticals	112		42		28	4	Elective 9th Semester
Pharmaceutical Care	112		42		28	4	Elective 9th Semester
Genetic Engineering	112		42		28	4	Elective 9th Semester
Clinical Trials	112		42		28	4	Elective 9th Semester
Pharmacoepidemiology	112		42		28	4	Elective 9th Semester
Non Prescription Pharmacotherapy	112		42		28	4	Elective 9th Semester
Experimental Molecular Genetics	112		42		28	4	Elective 9th Semester
Quality Management in Health	112		42		28	4	Elective 9th Semester
Project III	112		42		28	4	Elective 9th Semester
Curricular Traineeship Community Pharmacy Hospital Pharmacy	840	924				30	6 months 10th Semester