

Curriculum of the EMJMD NANOMEDICINE FOR DRUG DELIVERY (NANOMED)

S1: Introduction to pharmaceutical formulation: from classical forms to nanoparticles (30 ECTS)

S2: Basic Nanomedicine and Advanced Biology (30 ECTS)

S3: Advanced Nanomedicine (30 ECTS)

S4: 6-month-long traineeship (30 ECTS)

The Modules composing the four semesters of the curriculum are detailed in the following table:

SEMESTER 1 (UPDescartes or UPAT)		
Course	TYPE	ECTS
Introduction to Pharmaceutical Sciences	Class	3
PreFormulation and Dosage Form Design	Cass	3
Conventional Dosage Forms (including Practical courses taking place at UPDescartes)	Class & Practical	9
Special Topics in Pharmaceutical Technology (including Practical courses taking place at UPDescartes)	Class & Practical	6
Practical Applications of Formulations	Project	6
Innovative Dosage Forms	Class	3
TOTAL		30
SEMESTER 2 (UPDescartes & 4 Universities of the Consortium)		
Course	TYPE	ECTS
Introduction to Nanomedicine (in UPDescartes)	Seminars, Classes & Practicals & platform visits	9
Advanced Biology-Pharmaceutical Biotechnology (in UPDescartes)	Class	3
3-month traineeship (in one of the 4 Universities of the Consortium)	Practical Project	15
NANOMED Summer School and Workshop	Lectures & Project Presentation	3
TOTAL		30
SEMESTER 3 (UPavia or UAngers)		
Course	TYPE	ECTS
Nanomedicine Applications and Regulations (including Biotech Drugs)	Class	5
Personal Development	Seminars	2
Specialization in Nanomedicines (broken down in 4 different courses which cover all the aspects of Nanomedicine Development and Special Issues of analysis, targeting, vaccines etc.)	Class, Practical, Lectures by Invited Professors	23
TOTAL		30
SEMESTER 4 (NANOMED Consortium & Associated Partners)		
Traineeship - Project	Practical Project	30
TOTAL ECTS		120