

**ANNEX I**  
**Study programme**  
**International Master Molecular Medicine**

**SEMESTER 1: STUDENTS AT HOME INSTITUTION**

*a. Study Programme for UNIPD STUDENTS*

Activity	ECTS
PHARMACEUTICAL BIOTECHNOLOGY: DESIGN AND ANALYSIS OF BIOPHARMACEUTICALS	6
LABORATORY MEDICINE TECHNOLOGIES AND MOLECULAR DIAGNOSTICS	14
PROTEOMICS AND BIOINFORMATICS	6
SEMINAR	1
<b>TOTAL</b>	<b>27</b>

*b. Study Programme for UNIULM STUDENTS*

Activity	ECTS
CURRENT CONCEPTS IN STEM CELL BIOLOGY AND REGENERATIVE MEDICINE*	6
BIOINFORMATICS AND SYSTEMS BIOLOGY*	6
NEW DRUG DISCOVERY, DEVELOPMENT AND EVALUATION*	6
PRACTICAL TRAINING IN LABORATORY METHODS	9
TRANSLATIONAL IMAGING*	3
TOXICOLOGY FOR NATURAL SCIENCES*	6
INTRODUCTION TO HUMAN NEUROPHYSIOLOGY*	3
INTRODUCTION TO HUMAN NEUROANATOMY*	3
<b>TOTAL</b>	<b>30</b>

\*elective modules, in total 21 ECTS have to be achieved

**SEMESTER 2: ALL STUDENTS AT ULM**

Teaching Unit at ULM	ECTS
BIOETHICS, PHILOSOPHY AND GOOD PRACTICE OF SCIENCE	6
BLOCK 1 (consisting of preparing seminar, practical internship and corresponding seminar), topic: Molecular Oncology	12
BLOCK 2 (consisting of preparing seminar, practical internship and corresponding seminar), topic: Trauma and Infection	12
<b>TOTAL</b>	<b>30</b>

**Semester 3: all students at UNIPD**

Teaching Unit at UNIPD	ECTS
PHARMACOLOGY AND MOLECULAR THERAPIES	4
	6
	4
EXPERIMENTAL MODELS IN VIVO AND VITRO	4
STEM CELL BIOLOGY AND MOLECULAR BIOLOGY OF DEVELOPMENT	2
	4
<i>2 optional courses among the following* (for a total of 8 ECTS):</i>	
a) ADVANCED BIOMEDICAL TECHNOLOGIES 1	4
b) ADVANCED BIOMEDICAL TECHNOLOGIES 2	4
c) LABORATORY ACTIVITIES 1: CELLULAR AND MOLECULAR THERAPIES	4
d) LABORATORY ACTIVITIES 2: MOLECULAR AND SYSTEMS BIOLOGY	4
e) LABORATORY ACTIVITIES 3	4
f) LABORATORY ACTIVITIES 4	4
g) LABORATORY ACTIVITIES 5	4
h) ADVANCED TECHNOLOGIES FOR BIOMEDICAL DATA	4
i) BIOLOGY OF AGEING	4
j) ANTIBIOTIC THERAPY: DISCOVERY, DEVELOPMENT AND RATIONALE CLINICAL USE	4
<b>TOTAL</b>	<b>32</b>

\* Please note that the students can't choose two laboratory activities.

**Semester 4: students at home or host institution**

ACTIVITY	ECTS
Final Thesis	30 at ULM 31 at UNIPD