



DEGREE PROGRAM ACADEMIC YEAR 2021/2022						DEGREE PROGRAM ACADEMIC YEAR 2021/2022						
Classe LM-6 - Biology (D.M. 270/04)						Classe LM-6 - Biology (D.M. 270/04)						
POSTGRADUATE PROGRAMME "APPLIED AND MOLECULAR BIOLOGY"						POSTGRADUATE PROGRAMME "APPLIED AND MOLECULAR BIOLOGY"						
CURRICULUM BIOTECHNOLOGY						CURRICULUM SCIENCE OF NUTRITION						
SUBJECT	Tipologia	SETTORE		Tot. CFU	Tot. Ore	SUBJECT	Tipologia	SETTORE		Tot. CFU	Tot. Ore	
<b>FIRST YEAR</b>						<b>FIRST YEAR</b>						
BIOCHEMISTRY AND BIOTECHNOLOGY OF PROTEINS	Caratt.	BIO/10		8	64	1	BIOCHEMISTRY OF NUTRITION	Caratt.	BIO/10	8	64	
CELLULAR BIOTECHNOLOGY	Caratt.	BIO/06		6	48	2	CELLULAR BIOTECHNOLOGY	Caratt.	BIO/06	6	48	
<i>COMBINED COURSE: BIOINFORMATICS</i>						<i>COMBINED COURSE: BIOINFORMATICS</i>						
Module 1 BIOINFORMATICS	Caratt.	BIO/18	6	10	80	3	Module 1 BIOINFORMATICS	Caratt.	BIO/18	6	10	80
Module 2 BIOINFORMATICS	Aff.	FIS/07	4			4	Module 2 BIOINFORMATICS	Aff.	FIS/07	4		
BIOCHEMICAL ANALYSIS	Caratt.	BIO/10		6	48	4	BIOCHEMICAL ANALYSIS	Caratt.	BIO/10	6	48	
BIOMOLECULAR TECHNOLOGIES: ADVANCED MOLECULAR BIOLOGY AND GENETIC ENGINEERING	Caratt.	BIO/11		12	96	5	BIOMOLECULAR TECHNOLOGIES: ADVANCED MOLECULAR BIOLOGY AND GENETIC ENGINEERING	Caratt.	BIO/11	12	96	
BIOTECHNOLOGY OF MICROORGANISMS	Aff.	AGR/16		7	56	6	BIOTECHNOLOGY OF MICROORGANISMS	Aff.	AGR/16	7	56	
REPRODUCTIVE TECHNOLOGIES	Caratt.	BIO/06		6	48	7	PHYSIOLOGY OF NUTRITION	Caratt.	BIO/09	7	56	
LANGUAGE ADVANCED LEVEL				3			LANGUAGE ADVANCED LEVEL			3		
OPTIONAL CREDITS *				6	48		OPTIONAL CREDITS *			6	48	
		<b>Totale CFU</b>		<b>64</b>					<b>Totale CFU</b>	<b>65</b>		
<b>SECOND YEAR (to be activated 2022/2023)</b>						<b>SECOND YEAR (to be activated 2022/2023)</b>						
APPLIED GENETIC	Caratt.	BIO/18		6	48	8	APPLIED GENETIC	Caratt.	BIO/18	6	48	
BIOMOLECULAR NANOTECHNOLOGIES	Aff.	CHIM/06		6	48	9	MICROBIOLOGICAL QUALITY AND SAFETY OF FOOD	Aff.	AGR/16	7	56	
<i>COMBINED COURSE: BIOMEDICAL MICROBIOLOGY</i>						<i>COMBINED COURSE: BIOMEDICAL MICROBIOLOGY</i>						
BACTERIOLOGY	Caratt.	BIO/19	6	12	96	10	CHEMICAL ANALYSIS OF FOODS	Aff.	CHIM/01	7	56	
DIAGNOSTIC MICROBIOLOGY	Caratt.	MED/07	6									
MODELLING OF BIOLOGICAL SYSTEMS	Aff.	CHIM/06		5		11	APPLIED DIETETIC SCIENCES AND TECHNIQUES	Caratt.	MED/49	8	64	
ELEMENTS OF LEGISLATION, CERTIFICATION AND QUALITY MANAGEMENT IN THE PROFESSION OF BIOLOGIST	Altre	BIO/19		2	16		ELEMENTS OF LEGISLATION, CERTIFICATION AND QUALITY MANAGEMENT IN THE PROFESSION OF BIOLOGIST	Altre	BIO/19	2	16	
PRATICAL TRAINING	Altre			5			PRATICAL TRAINING	Altre		5		
OPTIONAL CREDITS *				6			OPTIONAL CREDITS *			6		
THESIS				14			THESIS			14		
		<b>Totale CFU</b>		<b>56</b>					<b>Totale CFU</b>	<b>55</b>		
		<b>TOT</b>		<b>120</b>					<b>TOT</b>	<b>120</b>		
<b>COURSES FOR OPTIONAL CREDITS *</b>						<b>COURSES FOR OPTIONAL CREDITS *</b>						
MOLECULAR BIOPHYSICS	D	FIS/07		6	48	12	<i>INTEGRATED COURSE: ALGAE AND NUTRITION</i>					
FERMENTATION BIOTECHNOLOGY	D	AGR/16		6	48		> ALGAE IN HUMAN NUTRITION	D	BIO/04	3	6	48
MOLECULAR GENETIC **	D	BIO/18		6	48		> ALGAE AND FOOD CONTAMINATION	D	BIO/01	3		
LABORATORY OF BIOACTIVE MOLECULES **	D	CHIM/06		6	48		NUTRIGENETICS AND NUTRITIONAL GENOMICS	D	BIO/10	6	48	
MEDICAL AND MOLECULAR VIROLOGY	D	AGR/16		6	48		FOODBORNE MICROBIAL DISEASES	D	MED/07	6	6	
STRUCTURAL BIOINFORMATICS AND METHODS FOR BIOSIMULATIONS	D	BIO/11		6	48		OXIDATIVE STRESS IN BIOLOGICAL SYSTEMS	D	BIO/10	6	6	
							BIOTECHNOLOGY OF FUNCTIONAL FOODS	D	AGR/16	6	6	
							DIET AND METABOLIC DISORDERS	D	BIO/10	6	6	

The courses for credits to be chosen are valid for both curricula

\* At least 6 CFU must be acquired attending one of the following optional courses

\*\* to be inserted in the career of students that didn't submit an individual study plan

> Molecular genetic - first year

> Laboratory of bioactive molecules - second year

a) 1 credit= 8 hours. Together with the theoretical lectures, all courses must have at least 1 credit of experimental session

b) combined courses involve various courses with only one final examination

c) there are no compulsory prerequisite exams

d) Practical training has to be carried out in structures outside DISVA for 120 hours

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