



DEGREE PROGRAM ACADEMIC YEAR 2019/2020						DEGREE PROGRAM ACADEMIC YEAR 2019/2020						
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	
FIRST YEAR						FIRST YEAR						
1	BIOCHEMISTRY AND BIOTECHNOLOGY OF PROTEINS	Caratt.	BIO/10	8	64	1	BIOCHEMISTRY OF NUTRITION	Caratt.	BIO/10	8	64	
2	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>						
3	Module 1 BIOINFORMATICS	Caratt.	BIO/18	6	10	80	3	Module 1 BIOINFORMATICS	Caratt.	BIO/18	6	
	Module 2 BIOINFORMATICS	Aff.	FIS/07	4				Module 2 BIOINFORMATICS	Aff.	FIS/07	4	
4	BIOCHEMICAL ANALYSIS	Caratt.	BIO/10	6	48	4	BIOCHEMICAL ANALYSIS	Caratt.	BIO/10	6	48	
<i>COMBINED COURSE: BIOMOLECULAR TECHNOLOGIES</i>						<i>COMBINED COURSE: BIOMOLECULAR TECHNOLOGIES</i>						
5	> GENETIC ENGINEERING	Caratt.	BIO/11	6	12	96	5	> GENETIC ENGINEERING	Caratt.	BIO/11	6	
	> ADVANCED MOLECULAR BIOLOGY	Caratt.	BIO/11	6				> ADVANCED MOLECULAR BIOLOGY	Caratt.	BIO/11	6	
6	BIOTECHNOLOGY OF MICROORGANISMS	Aff.	AGR/16	7	56	6	BIOTECHNOLOGY OF MICROORGANISMS	Aff.	AGR/16	7	56	
7	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	
			Totale CFU	64						65		
SECOND YEAR (to be activated 2020/2021)						SECOND YEAR (to be activated 2020/2021)						
8	APPLIED GENETIC	Caratt.	BIO/18	6	48	8	APPLIED GENETIC	Caratt.	BIO/18	6	48	
9	BIOMOLECULAR NANOTECHNOLOGIES	Aff.	CHIM/06	6	48	9	MICROBIOLOGICAL QUALITY AND SAFETY OF FOOD	Aff.	AGR/16	7	56	
10	<i>COMBINED COURSE: BIOMEDICAL MICROBIOLOGY</i>					10	CHEMICAL ANALYSIS OF FOODS	Aff.	CHIM/01	7	56	
	BACTERIOLOGY	Caratt.	BIO/19	6	12	96						
	DIAGNOSTIC MICROBIOLOGY	Caratt.	MED/07	6								
11	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		
			Totale CFU	56						55		
			TOT	120						120		
12	COURSES FOR OPTIONAL CREDITS *					12	COURSES FOR OPTIONAL CREDITS *					
	MOLECULAR BIOPHYSICS	D	FIS/07	6	48		<i>COMBINED 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		<i>COMBINED COURSE: NUTRIGENETICS AND NUTRITIONAL GENOMICS</i>				6	48
	MEDICAL AND MOLECULAR VIROLOGY	D	AGR/16	6	48		> NUTRIGENETICS AND NUTRITIONAL GENOMICS-MODULE 1	D	BIO/18	3		
	STRUCTURAL BIOINFORMATICS AND METHODS FOR BIOSIMULATIONS	D	BIO/11	6	48		> NUTRIGENETICS AND NUTRITIONAL GENOMICS-MODULE 2	D	BIO/11	3		
							FOODBORNE MICROBIAL DISEASES	D	MED/07		6	6
							OXIDATIVE STRESS IN BIOLOGICAL SYSTEMS	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

> Laboratory of bioactive molecules - first year

> Molecular genetic - 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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