



The training activities (teachings, laboratories, internship, vocational training activities, final exam) are measured in credits that document the student's commitment in carrying out the activity itself. Each credit corresponds to 25 hours of overall commitment for the student, between participation in teaching activities and personal study. In the activity plan formative, shown below and visible on the Faculty of Medicine and Surgery website (www.med.univpm.it), the number is indicated of the credits attributed to each individual activity.

The Degree Course is organized into three types of training activities: basic activities; characterizing activities; related activities or integrative.

The courses included in the aforementioned activities are offered through ex cathedra lessons. To these is added, which one activities of your choice, a wide range of monographic courses and forums on topics related to the subjects covered. Among other activities is also including knowledge of a foreign language.

Lessons and laboratory activities take place at the Faculty of Medicine and Surgery; training activity vocational training, the Practical Evaluation Internship and the internship are carried out in the affiliated structures under the supervision of medical personnel identified as tutor/ referent.

The aim of the course is to integrate the classic medical training path with transdisciplinary skills common to the medical training and the biomedical engineering path and to train a doctor who is not only an expert user of modern technologies applied to the various field of clinical medicine and translational scientific – technological research, but also an active collaborator in the conception and design of new and advanced technologies in cooperation with graduates in the various engineering sectors. All this by aiming at an innovative medicine capable of exploiting tools and systems with high technological complexity (genomics, bioinformatics, big data, artificial intelligence remote technologies).

During the training course, students of M&S will also guaranteed the possibility of acquiring further knowledge and basic skills through the acquisition of 30 optional University Educational Credits, which exceed the 360 credits required for the Medicine and Surgery degree.

In this way, the course will allow the M&S students who decide to also acquire the additional 30 ECTS to request, at the end of the 6 years, the **Bachelor degree in Biomedical Engineering**.

Master Degree in Medicine and Surgery - Registered Students in the Academic Year 2025/2026 - 1st YEAR (MU23 -25-25)

I YEAR									
	integrated / monodisciplinary course		TOT CFU	SSD	Teaching module		CFU module	TAF	disciplinary area
ANNUAL	Cell Morpholgy and Function	W001875	10	BIO/13	Applied Biology and Genetics	W001876	6	A	B_01 Discipline generali per la formazione del medico. General knowledges for the acquisition of professional competences
				BIO/17	Histology	W001877	4	A	B_03. Morfologia umana Human morphology
FIRST SEMESTER	Fundamentals of Experimental Physics and Chemistry	W001879	12	FIS/01	Experimental Physics	W001880	6	A	B_01 Discipline generali per la formazione del medico. General knowledges for the acquisition of professional competences
				CHIM/07	Chemical Basis of Technologies	W001881	6	C	Related/Integrated activities
ANNUAL	Mathematical Analysis and Geometry	W001882	12	MAT/05	Mathematical Analysis	W001883	7	C	Related/Integrated activities
				MAT/03	Geometry	W001884	5	C	Related/Integrated activities
SECOND SEMESTER	Human Anatomy I	W003873	7	BIO/16	Human microscopic anatomy	W003874	2	A	B_03. Morfologia umana Human morphology
				BIO/16	Human Anatomy I	W003875	5	B	C_19. Formazione clinica interdisciplinare e medicina basata sulle evidenze e medicina di precisione Interdisciplinary clinical education and evidence-based medicine
SECOND SEMESTER	Narrative Medicine and Bioethics	W003870	4	MED/42	Narrative Medicine	W003871	2	B	C_16. Medicina e sanità pubblica e degli ambienti di lavoro e scienze medico legali Medicine, public health, workplace environments, and forensis medicine
				MED/43	Bioethics	W003872	2	B	C_16. Medicina e sanità pubblica e degli ambienti di lavoro e scienze medico legali Medicine, public health, workplace environments, and forensis medicine
SECOND SEMESTER	Biochemistry (frequency only)	W003876	0	BIO/10	Biochemistry (frequency only)	W003876	0	A	B_02. Struttura, funzione e metabolismo delle molecole d'interesse biologico Molecular structure, function and metabolism of molecules of biological interest
SECOND SEMESTER	Professionalizing Activities - first year	W001989	2		Professionalizing Activities-Medicine	W001989	2	F	Further training activities (art. 10.5.d)
SECOND SEMESTER	Elective Teaching Activity - first year		2	NN				D	Other elective activities chosen by the student

TOT CFU	49
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Number of exams/year	6
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Master Degree in Medicine and Surgery - Registered Students in the Academic Year 2025/2026 - 2nd YEAR (MU23 -25-25)

II YEAR									
	integrated / monodisciplinary course		TOT CFU	SSD	Teaching module		CFU module	TAF	disciplinary area
ANNUAL	Medical statistics, epidemiology and public health	W003877	6	MED/01	Medical Statistics	W003878	3	B	C_19. Formazione clinica interdisciplinare e medicina basata sulle evidenze e medicina di precisione Interdisciplinary clinical training, evidence-based medicine, and precision medicine
				MED/42	Hygiene, public health and community medicine	W003879	3	B	C_20. Scienze umane, politiche della salute e management sanitario e lingua inglese Human sciences, health policies and healthcare management, amd english language
ANNUAL	Human physiology	W003884	11	BIO/09	Human physiology	W003884	11	B	C_19. Formazione clinica interdisciplinare e medicina basata sulle evidenze e medicina di precisione Interdisciplinary clinical training, evidence-based medicine, and precision medicine
FIRST SEMESTER	Fundamentals of Biomechanics and Biomechanics	W001891	9	ING-IND/13	Mechanics Applied to Machines	W001892	3	C	Related/Integrated activities
				ING-IND/34	Industrial Bioengineering	W001893	6	B	C_21. Tecnologie di informazione e comunicazione e discipline tecnico- scientifiche di supporto alla medicina Information and communication technologies and technical-scientific disciplines supporting medicine
FIRST SEMESTER	Medical Informatics - Electronic and Computer Bioengineering	W001896	6	ING-INF/06	Medical Informatics - Electronic and Computer Bioengineering	W001896	6	B	C_21. Tecnologie di informazione e comunicazione e discipline tecnico- scientifiche di supporto alla medicina Information and communication technologies and technical-scientific disciplines supporting medicine
FIRST SEMESTER	Human Anatomy II	W003885	8	BIO/16	Human Anatomy II	W003885	8	A	B_03. Morfologia umana Human morphology
FIRST SEMESTER	Biochemistry	W003883	10	BIO/10	Biochemistry	W003883	10	A	B_02. Struttura, funzione e metabolismo delle molecole d'interesse biologico Molecular structure, function and metabolism of molecules of biological interest
SECOND SEMESTER	Microbiology and immunology	W003880	7	MED/07	Microbiology and Clinical Microbiology	W003881	5	B	C_01. Patologia generale e molecolare, immunopatologia, fisiopatologia generale, microbiologia e parassitologia General and molecular pathology, immunopatology, general pathophysiology, microbiology and parasitology
				MED/04	General Pathology (Immunology)	W003882	2	B	C_01. Patologia generale e molecolare, immunopatologia, fisiopatologia generale, microbiologia e parassitologia General and molecular pathology, immunopatology, general pathophysiology, microbiology and parasitology
ANNUAL	Professionalizing Activities -second year	W001990	2	NN	Professionalizing Activities-Medicine and Surgery	W001990	2	F	Further training activities (art. 10.5.d)
SECOND SEMESTER	Elective Teaching Activity -second year		2					D	Other elective activities chosen by the student

TOT CFU	61
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Number of exams/year	7
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OPTIONAL CREDITS SUMMARY (CFU) TO GET AN ADDTIONAL BACHELOR DEGREE IN BIOMEDICAL ENGINEERING

Semester	integrated / monodisciplinary course			SSD	Teaching module	CFU	TAF	disciplinary area
FIRST SEMESTER	Fundamentals of Computer Sciences	W001894	6	ING-INF/05	Fundamentals of Computer Sciences	6	C	Related/Integrated activities
FIRST SEMESTER	Electromagnetic Fields for Medicine - Basis of Electromagnetism	W001895	6	ING-INF/02	Electromagnetic Fields for Medicine - Basis of Electromagnetism	6	C	Related/Integrated activities

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Master Degree in Medicine and Surgery - Students registered in Academic Year 2025/2026 - 3rd YEAR (MU23 -25-25)

III YEAR									
	integrated / monodisciplinary course		TOT CFU	SSD	Teaching module		CFU module	TAF	disciplinary area
FIRST SEMESTER	Applied Physics in Bioengineering	W001906	14	ING-INF/06	Electronic and Computer Bioengineering	W001907	7	A	B_04. Funzioni biologiche Biological functions
				ING-INF/01	Electronics	W001908	3	C	Related/Integrated activities
				FIS/07	Applied Physics	W001909	4	A	B_01. Discipline generali per la formazione del medico General knowledges for the acquisition of professional competences
ANNUAL	Pathology	W003886	12	MED/04	General Pathology 1	W003887	3	B	C_01. Patologia generale e molecolare, immunopatologia, fisiopatologia generale, microbiologia e parassitologia General and molecular pathology, immunopatology, general pathophysiology, microbiology and parasitology
				MED/04	General Pathology 2	W003888	3	B	C_01. Patologia generale e molecolare, immunopatologia, fisiopatologia generale, microbiologia e parassitologia General and molecular pathology, immunopatology, general pathophysiology, microbiology and parasitology
				MED/04	General Pathophysiology	W003889	4	B	C_01. Patologia generale e molecolare, immunopatologia, fisiopatologia generale, microbiologia e parassitologia General and molecular pathology, immunopatology, general pathophysiology, microbiology and parasitology
				MED/05	Clinical Pathology	W003890	2	B	C_03. Medicina di laboratorio e diagnostica integrata Laboratory and diagnostic-integrated medicine
SECOND SEMESTER	Medical and Surgical Semeiotics	W003891	4	MED/09	Internal Medicine (Semeiotics)	W003892	2	B	C_06. Clinica delle specialità medico-chirurgiche Clinic of medical-surgical specialties
				MED/18	General Surgery and Surgical Semeiotics	W003893	2	B	C_09. Clinica generale medica e chirurgica General medical-surgical clinic
SECOND SEMESTER	Medical Phatology	W003894	6	MED/09	Medical Pathology	W003894	6	B	C_06. Clinica delle specialità medico-chirurgiche Clinic of medical-surgical specialties
SECOND SEMESTER	Technical Sciences and Tissue Engineering	W003895	4	MED/46	Lab Technical Science and Medicine	W003948	2	B	C_19. Formazione clinica interdisciplinare e medicina basata sulle evidenze e medicina di precisione Interdisciplinary clinical training, evidence-based medicine, and precision medicine
				BIO/17	Hystology (Tissue Engineering)	W003897	2	A	B_03. Morfologia umana Human morphology
ANNUAL	Professionalizing Activities -third year	W001991	9	NA	Professionalizing Activities -third year	W001991	9	F	Further training activities (art. 10.5.d)
SECOND SEMESTER	Elective Teaching Activity -third year		2	NA				D	Other elective activities chosen by the student

TOT CFU	51
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Number of exams/year	5
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OPTIONAL CREDITS SUMMARY (CFU) TO GET AN ADDTIONAL BACHELOR DEGREE IN BIOMEDICAL ENGINEERING

Semester	Integrated / monodisciplinary course	Code	CFU	SSD	Teaching module		CFU	TAF	disciplinary area
SECOND SEMESTER	Fundamentals of Electrical and Electronic Engineering	W001910	9	ING-IND/31	Electrical Engineering	W001912	6	C	Related/Integrated activities
				ING-INF/01	Electronics	W001911	3	C	Related/Integrated activities
FIRST SEMESTER	Fundamentals of Mechanical Engineering	W001913	9	ING-INF/03	Telecommunications	W001914	3	C	Related/Integrated activities
				ING-INF/04	Automatics	W001915	3	C	Related/Integrated activities
				ING-IND/13	Mechanics Applied to Machines	W001916	3	C	Related/Integrated activities

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Master Degree in Medicine and Surgery - Registered Students in the Academic Year 2025/2026 - 4th YEAR (MU23 -25-25)

IV YEAR									
	integrated / monodisciplinary course		TOT CFU	SSD	Teaching module		CFU module	TAF	disciplinary area
FIRST SEMESTER	Organ System Diseases 1: Blood, Heart and Lung	W003898	11	MED/11	Cardiovascular Diseases	W003899	3	B	C_02. Fisiopatologia, metodologia clinica, propedeutica clinica e sistematica medico-chirurgica Pathophysiology, clinical methodology, clinical preparatory and medical-surgical systematics
				MED/23	Cardiac Surgery	W003900	2	B	C_15. Emergenze medico-chirurgiche Medical-surgical emergencies
				MED/10	Respiratory System Diseases	W003901	2	B	C_02. Fisiopatologia, metodologia clinica, propedeutica clinica e sistematica medico-chirurgica Pathophysiology, clinical methodology, clinical preparatory and medical-surgical systematics
				MED/15	Blood Diseases	W003902	2	B	C_02. Fisiopatologia, metodologia clinica, propedeutica clinica e sistematica medico-chirurgica Pathophysiology, clinical methodology, clinical preparatory and medical-surgical systematics
				MED/08	Pathological Anatomy	W003903	2	B	Anatomopathological disciplines and anatomic-clinical correlations
FIRST SEMESTER	Organ System Diseases 2: Kidney and Genitourinary System	W001930	6	MED/14	Nephrology	W001931	2	B	Pathophysiology, clinical methodology, clinical preparatory and medical-surgical systematics
				MED/24	Urology	W001932	2	B	Obstetric and gynecological disciplines, reproductive medicine, and medical sexology
				MED/08	Pathological Anatomy	W001933	2	B	C_13. Discipline anatomopatologiche e correlazioni anatomo-cliniche Anatomopathological disciplines and anatomic-clinical correlations
ANNUAL	Mathematical Models in Medicine	W001934	5	ING-INF/06	Mathematical Models in Medicine	W001934	5	A	B_04. Funzioni biologiche Biological functions
ANNUAL	Pharmacology	W003949	8	BIO/14	Pharmacology I	W003950	4	B	C_10. Farmacologia, tossicologia e principi di terapia medica Pharmacology, toxicology and principles of medical therapy
					Pharmacology II	W004951	4	B	C_04. Clinica psichiatrica e discipline del comportamento Psychiatric clinic and behavioral sciences
SECOND SEMESTER	Data Science for Bioengineering	W001937	6	ING-INF/05	Data Science for Bioengineering	W001937	6	B	C_21. Tecnologie di informazione e comunicazione e discipline tecnico- scientifiche di supporto alla medicina Information and communication technologies and technical-scientific disciplines supporting medicine
SECOND SEMESTER	Organ System Diseases 3: Endocrine and Gastrointestinal Systems, Nutrition and Metabolism	W003904	9	MED/12	Gastroenterology	W003905	3	B	C_02. Fisiopatologia, metodologia clinica, propedeutica clinica e sistematica medico-chirurgica Pathophysiology, clinical methodology, clinical preparatory and medical-surgical systematics
				MED/13	Endocrinology	W003906	2	B	C_18. Medicina delle attività motorie e del benessere Physical activity and well-being medicine
				MED/18	General Surgery and New Techniques in Surgery: Minimally Invasive and Robotic Surgery	W003907	2	B	C_09. Clinica generale medica e chirurgica General medical and surgical clinic
				MED/08	Pathological Anatomy	W003908	2	B	C_13. Discipline anatomopatologiche e correlazioni anatomo-cliniche Anatomopathological disciplines and anatomic-clinical correlations
ANNUAL	Professionalizing Activities -fourth year	W001992	14	NN	Professionalizing Activities -fourth year	W001992	14	F	Further training activities (art. 10.5.d)
SECOND SEMESTER	Elective Teaching Activity -fourth year		2	NN				D	Other elective activities chosen by the student

TOT CFU	61
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Number of exams/year	6
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V YEAR									
	integrated / monodisciplinary course		TOT CFU	SSD	Teaching module		CFU module	TAF	disciplinary area
FIRST SEMESTER	Oncology and Internal Medicine (immune system)	W003923	5	MED/06	Oncology	W003924	3	B	C_19. Formazione clinica interdisciplinare e medicina basata sulle evidenze e medicina di precisione Interdisciplinary clinical training, evidence-based medicine, and precision medicine
				MED/09	Internal Medicine (Immune System)	W003925	2	B	C_06. Clinica delle specialità medico-chirurgiche Clinic of medical-surgical specialties
FIRST SEMESTER	Clinical Neurosciences and Mental Health	W001948	9	MED/26	Neurology	W001949	3	B	C_05. Discipline neurologiche Neurological disciplines
				MED/37	Neuroradiology	W001950	2	B	C_05. Discipline neurologiche Neurological disciplines
				MED/27	Neurosurgery	W001951	2	B	C_05. Discipline neurologiche Neurological disciplines
				MED/25	Psychiatry	W001952	2	B	C_10. Farmacologia, tossicologia e principi di terapia medica Pharmacology, toxicology and principles of medical therapy
FIRST SEMESTER	New Radiology Diagnostic and Therapeutic Modality	W003915	9	MED/36	Radiology and Interventional Radiology	W003916	3	B	C_14. Discipline radiologiche e radioterapiche Radiological and radiotherapy disciplines
				MED/36	Nuclear Medicine, Radiotherapy, Radiobiology, Radio protection	W003917	2	B	C_14. Discipline radiologiche e radioterapiche Radiological and radiotherapy disciplines
				ING-INF/06	Electronic and Computer Bioengineering	W003918	4	A	B_04. Funzioni biologiche Biological functions
SECOND SEMESTER	Head and Neck Diseases	W001957	6	MED/28	Oral Diseases	W001958	2	B	C_07. Clinica medico-chirurgica degli organi di senso Medical-surgical clinic of the sense organs
				MED/30	Ophthalmology	W001959	2	B	C_07. Clinica medico-chirurgica degli organi di senso Medical-surgical clinic of the sense organs
				MED/31	Otolaryngology	W001960	2	B	C_07. Clinica medico-chirurgica degli organi di senso Medical-surgical clinic of the sense organs
SECOND SEMESTER	Dermatology, Plastic Surgery and Infectious Diseases	W003919	6	MED/17	Infectious Diseases	W003920	2	B	C_17. Medicina di comunità e cure primarie Community medicine and primary care
				MED/35	Cutaneous and Venereal Diseases	W003921	2	B	C_06. Clinica delle specialità medico-chirurgiche Clinic of medical-surgical specialties
				MED/19	Plastic Surgery	W003922	2	B	C_06. Clinica delle specialità medico-chirurgiche Clinic of medical-surgical specialties
SECOND SEMESTER	Bone and Joint and Technologies in Rehabilitation	W003910	10	MED/33	Musculoskeletal System Diseases	W003911	2	B	C_08. Clinica medico- chirurgica dell'apparato locomotore Medical-surgical clinic of the musculoskeletal system
				MED/34	Physical and Rehabilitation Medicine	W003912	2	B	C_08. Clinica medico- chirurgica dell'apparato locomotore Medical-surgical clinic of the musculoskeletal system
				MED/16	Rheumatology	W003913	2	B	C_06. Clinica delle specialità medico-chirurgiche Clinic of medical-surgical specialties
				ING-IND/34	Industrial Bioengineering	W003914	4	B	C_21. Tecnologie di informazione e comunicazione e discipline tecnico- scientifiche di supporto alla medicina Information and communication technologies and technical-scientific disciplines supporting medicine
ANNUAL	Professionalizing Activities -fifth year	W001993	18		Professionalizing Activities -fifth year	W001993	18	F	Further training activities (art. 10.5.d)
SECOND SEMESTER	Elective Teaching Activity - fifth year		2					D	Other elective activities chosen by the student

TOT CFU	65
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Number of exams/year	6
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VI YEAR	integrated / monodisciplinary course	TOT CFU	SSD	Teaching module	CFU module	TAF	disciplinary area			
FIRST SEMESTER	Patient Management	W003926	11	MED/09	Clinical Medicine	W003952	2	B	C_10. Farmacologia, tossicologia e principi di terapia medica Pharmacology, toxicology and principles of medical therapy	EX C.I. W001970
				MED/09	Medical and Molecular Therapy	W003953	2	B	C_06. Clinica delle specialità medico-chirurgiche Clinical of medical-surgical specialities	
				MED/18	Clinical Surgery	W003928	3	B	C_09. Clinica generale medica e chirurgica General medical-surgical clinic	
				BIO/12	Clinical Biochemistry and Clinical Molecular Biology	W003929	2	B	C_03. Medicina di laboratorio e diagnostica integrata Laboratory and diagnostic-integrated medicine	
				MED/05	Clinical Pathology	W003930	2	B	C_03. Medicina di laboratorio e diagnostica integrata Laboratory and diagnostic-integrated medicine	
FIRST SEMESTER	Pediatrics, Ostetrics and Gynecology	W003931	7	MED/38	Pediatric Medicine	W003932	3	B	C_11. Discipline pediatriche Pediatric disciplines	EX C.I. W001975
				MED/20	Pediatric Surgery	W003933	2	B	C_11. Discipline pediatriche Pediatric disciplines	
				MED/40	Gynaecology and Obstetrics	W003934	2	B	C_12. Discipline ostetrico-ginecologiche, medicina della riproduzione e sessuologia medica Obstetric-gynecological disciplines, reproductive medicine and medical sexology	
FIRST SEMESTER	Healthcare Robotics and Active Ageing	W003935	8	MED/09	Geriatrics	W003936	2	B	C_13. Discipline anatomopatologiche e correlazioni anatomo-cliniche Anatomopathological disciplines and anatomic-clinical correlations	ex c.i. W001979
				MED/18	Clinical Geriatric Surgery	W003937	2	B	C_09. Clinica generale medica e chirurgica General medical-surgical clinic	
				ING-INF/06	Electronic and Computer Bioengineering	W003938	4	A	B_04. Funzioni biologiche Biological functions	
FIRST SEMESTER	Medical-surgical emergencies and intensive care	W003939	7	MED/41	Anesthesia and intensive care	W003940	3	B	C_15. Emergenze medico-chirurgiche Medical-surgical emergencies	ex c.i. W001983
				MED/09	Medical Emergencies	W003941	2	B	C_15. Emergenze medico-chirurgiche Medical-surgical emergencies	
				MED/18	Surgical Emergencies	W003942	2	B	C_09. Clinica generale medica e chirurgica General medical-surgical clinic	
FIRST SEMESTER	Occupational and forensic medicine	W003943	4	MED/43	Forensic medicine	W003944	2	B	C_16. Medicina e sanità pubblica e degli ambienti di lavoro e scienze medico legali Medicine, public health, workplace environments, and forensic medicine	
				MED/44	Occupational medicine	W003945	2	B	C_16. Medicina e sanità pubblica e degli ambienti di lavoro e scienze medico legali Medicine, public health, workplace environments, and forensic medicine	
ANNUAL	Practical-evaluative internship	W003947	15		Practical-evaluative internship	W003947	15	F	Further training activities (art. 10.5.d)- Tirocinio formativo e di orientamento?	ex W001994
ANNUAL	Final test	W003946	13	PROFIN_S		W003946	13	E	Final test and foreign language (art. 10.5.c)	EX W001995

TOT CFU	65
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Number of exams/year	5
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OVERVIEW TABLE

		TAF								
Year	Exams	A	B	C	D	E	F (PTA)	F (INTERNSHIP)	F (TPV)	TOT/year
I	6	18	9	18	2		2	8		49
II	7	18	36	3	2		2			61
III	5	13	24	3	2		9			51
IV	6	5	40	0	2		14			61
V	6	4	41	0	2		18			65
VI	5	4	33	0	0	13			15	65
TOT.										360

TAF (Type of training activities)
A - Basic activities
B - Characterizing activities
C - Related/Integrated activities
D - Other elective activities chosen by the student (i.e. Monographic courses)
E - Final test
F - Internship, Professionalizing Training Activities (PTA), Practical Evaluative Internship (TPV)