1st COURSE

OSTEOPATHY PROGRAM 5 YEARS
1st COURSE

SEMINARS	SUBJECTS	THEORETICAL HOURS	PRACTICAL HOURS
METHODOLOGICAL BASES OF OSTEOPATHY (BIOMECHANICAL, NEUROPHYSIOLOGICAL BASES IN OSTEOPATHY, INTRODUCTION TO DIAGNOSIS AND OSTEOPATHIC TECHNIQUES. OSTEOPATHIC CLINICAL REASONING)	Posturology, introduction to the history of osteopathy, Referred pain, Neurophysiology, Osteopathic laws, Somatic dysfunctions, Osteopathic diagnosis, Osteopathic techniques. HVT mechanisms of action. Tests used to diagnose pain in osteopathic medicine. Coupled vertebral movements. Modern concepts of spinal osteopathic dysfunction.	**60**	**15**
STRUCTURAL OSTEOPATHY I: LUMBAR SPINE	Lumbar anatomy and biomechanics, pathophysiology, pathology, osteopathic diagnosis, test and treatment techniques for the lumbar spine. Static palpation.	**60**	**15**
STRUCTURAL OSTEOPATHY I: DORSAL SPINE	Dorsal anatomy and biomechanics, pathophysiology, pathology, osteopathic diagnosis, test and treatment techniques for the thoracic spine. Mobility tests of the thoracic and lumbar spine. The biopsychosocial model and osteopathy.	**60**	**15**
STRUCTURAL OSTEOPATHY I: CERVICAL SPINE	Cervical anatomy and biomechanics, pathophysiology, pathology, osteopathic diagnosis, cervical neuralgia and Scalenus Syndrome, whiplash, test and treatment techniques for the cervical spine. Segmental passive mobility tests for the cervical spine.	**60**	**15**

STRUCTURAL OSTEOPATHY I: PELVIS	General features of the sacroiliac joint: anatomy and biomechanics. Iliosacral dysfunctions, differential diagnosis, osteopathic diagnosis, tests and treatment techniques. Segmental passive mobility tests for the pelvis.	**70**	**21**
STRUCTURAL OSTEOPATHY I: UPPER LIMB I: SCAPULAR GIRDLE	General features of the shoulder, biomechanics, differential diagnosis, muscular pathology, scapular girdle anatomy, glenohumeral joint, acromioclavicular joint, sternoclavicular joint, Scapulothoracic joint. Tests and techniques. Spinal manipulation action on pain.	**68**	**21**
STRUCTURAL OSTEOPATHY I: UPPER LIMB II: ELBOW, WRIST AND HAND	Anatomy and biomechanics of the elbow, somatic dysfunction of the elbow, functional evaluation of the elbow, differential pathology of the elbow, muscle pathology, elbow tendinitis, tests and techniques.	**60**	**15**
	Wrist and hand, anatomy of the fingers, biomechanics of the wrist, osteopathic dysfunction of the wrist, pathology of the hand and finger, tests and techniques.		
	The thumb, differential diagnosis of the thumb, osteopathic dysfunctions of the thumb, tests and techniques.		
IMMUNE-NEUROENDOCRINE SYSTEMS INTERACTIONS I (INE)	Analysis of the inflammatory process. The inflammatory process from the osteopathic perspective. bone metabolism.	**20**	

MEDICAL PATHOLOGY I	**EMBRYOLOGY:** Introduction, Gametogenesis, Prenatal period, Organogenesis process, Placenta.	**20**	
	HISTOLOGY: Introduction, Classification, Lining epithelium, connective, muscular and nervous tissue. Basic structure of the central and peripheral nervous system.		
	BIOMECHANICS I: VERTEBRAL COLUMN. Physiology of the spine and sacroiliac joint.	**25**	
	BIOMECHANICS II: UPPER LIMBS Physiology of the shoulder, elbow, wrist and hand joints. The thumb.	**15**	
	TRAUMATOLOGY I: VERTEBRAL COLUMN: Traumatic pathology, fractures of the vertebral column, polytraumatized patients.	**25**	
	TRAUMATOLOGY II: UPPER LIMBS: Traumatic pathology, Fractures and other traumatic injuries of the upper limb	**25**	
	RHEUMATOLOGY. Evaluation, analytics, monoarthritis and polyarthritis differential diagnosis, medical pathology.	**25**	
RADIOLOGY I	Tests and procedures: diagnostic imaging I. Anatomy and radiological pathology.	**60**	
RESEARCH METHODOLOGY I	Fundamentals of research in osteopathy, The scientific method, The search for scientific information, Sources of information and analysis of the scientific literature, Evidence in structural Osteopathy, Evidence in visceral Osteopathy, Evidence in cranial Osteopathy	**117**	

2nd COURSE

OSTEOPATHY PROGRAM 5 YEARS
2nd COURSE

SEMINARS	SUBJECTS	THEORETICAL HOURS	PRACTICAL HOURS
STRUCTURAL OSTEOPATHY II: CERVICOLTHORACIC JOINT AND CERVICOBRACHIAL NEURALGIA	Anatomy and biomechanics of the cervicothoracic joint, differential diagnosis, osteopathic diagnosis, somatic dysfunctions of the cervicothoracic joint. Tests and techniques. Mechanisms of action of HVT in the visceral sympathetic system. Anatomy and biomechanics of C5C6, diagnosis and osteopathic pathology of C5C6	**68**	**21**
STRUCTURAL OSTEOPATHY II: THORACOLUMBAR JOINT AND DIAPHRAGM .	Anatomy and pathology of the thoracolumbar joint. Anatomy and physiology of the diaphragm, pathology of the diaphragm, osteopathic diagnosis, tests and techniques. Effects of spinal manipulation on facilitation/central sensitization.	**60**	**15**
STRUCTURAL OSTEOPATHY II: THE THORAX	Anatomy and biomechanics of the ribs, rib pathology, rib respiratory dysfunctions, respiratory injuries, rib subluxation, visceral referred pain, pregnancy and gravity lines.	**60**	**15**
STRUCTURAL OSTEOPATHY II: LOWER LIMB: HIP AND KNEE	General features of coxofemoral joint, biomechanics, differential diagnosis of the pelvis and hip, osteopathic diagnosis and pathology of the coxofemoral joint, pathology of the hip muscles, somatic dysfunctions of the hip, treatment techniques.	**60**	**21**

	General features of knee pain, knee muscles, meniscus, somatic dysfunctions of the knee, joint physiology of the knee, differential diagnosis of the knee, tests and techniques.		
STRUCTURAL OSTEOPATHY II: LOWER LIMB: ANKLE AND FOOT	Generalities of the foot, static disorders of the foot, anatomy and biomechanics, tibiotarsal joint compression, differential diagnosis, ankle and foot dysfunctions, pathology, muscle pathology of the foot, tests and techniques.	**68**	**21**
INTEGRATING OF OSTEOPATHIC CONCEPTS	Notions of holism in osteopathic medicine, introduction to the autonomic nervous system, introduction to cranial osteopathy, scientific data cranial osteopathy, palpatory morphology of the skull, results of osteopathy in other fields, introduction to visceral osteopathy.	**60**	**15**
IMMUNE-NEUROENDOCRINE SYSTEMS INTERACTIONS II (INE)	Biochemistry and inflammation. Prostaglandins, tendinosis and glutamate. Osteopathy, tendinopathy and rehabilitation.	**20**	
MEDICAL PATHOLOGY II	**BIOMECHANICS III: LOWER LIMBS.** Physiology of the hip, knee and ankle joints. Foot architecture.	**11**	
	TRAUMATOLOGY III: LOWER LIMBS Traumatic pathology, Fractures and other traumatic injuries of the lower limb.	**10**	
RADIOLOGY II	Complementary tests: diagnostic imaging II. Bone radiology and pathology.	**60**	

ACTION IN EMERGENCIES	Generalities, Victim Assessment, Catastrophe Action, Basic Vital Support, Basic Vital Support Instrumental, Shock, Hemorrhages, Wounds, foreign Bodies, Burns, Thoracic Pain, Intoxications, Emergencies, Action in CPR, Extremities, thorax and abdomen, road traffic injuries, aquatic environment injuries.	**15**	
RESEARCH METHODOLOGY II	Research designs, Research designs in Osteopathy, The study population, Blinding and randomization, Development of a research project in Osteopathy, Lines of research in Osteopathy	**117**	

OSTEOPATHY PROGRAM 5 YEARS
3rd COURSE

3rd COURSE

SEMINARS	SUBJECTS	THEORETICAL HOURS	PRACTICAL HOURS
STRUCTURAL OSTEOPATHY III: OSTEOPATHIC TREATMENT OF DISC HERNIATION, LUMBAR PAIN AND SCIATICA	Posturology. Footprint Measurements	**70**	**21**
	Osteopathic approach to posturology		
	Statistics on the osteopathic treatment of lumbar disc herniations, post-surgical Fibroarachnoiditis. Disc anatomy and biomechanics, Disc pathophysiology. Differential diagnosis of sciatica, osteopathic diagnosis.		
	Treatment of sciatica.		
	Spondylolisthesis and spinal stenosis.		
AUTONOMIC NERVOUS SYSTEM	Generalities, Sympathetic ganglia, Cranial parasympathetic system, Superior autonomic centers, Autonomic syndromes of the cephalic region.	**60**	**15**
	Physiology of the ANS, neurovegetative differential diagnosis, neurovegetative functional pathology, visceral dysfunctions,		
	Osteopathic neurovegetative treatment		
	Neurovegetative plexuses, vagus nerve treatment protocol		

CRANIAL OSTEOPATHY I: SPHENOBASILAR JOINT	Anatomy of the sphenobasilar, Biomechanics of the sphenobasilar, Skull generalities, Skull fractures. Cranial dysfunctions. General concepts, Diagnosis. Sphenobasilar Scientific Studies, Sphenobasilar Treatments.	**60**	**15**
CRANIAL OSTEOPATHY I: TEMPORAL, OCCIPITAL AND PARIETAL BONE	**TEMPORAL BONE:** Anatomy, Biomechanics, Temporal fractures, Traumatic osteopathic injuries, Temporal osteopathic dysfunctions. Otitis. Diagnosis and treatment of the Temporal bone.	**68**	**21**
	OCCIPITAL BONE: Anatomy, biomechanics, diagnosis, medical pathology, osteopathic pathology and techniques for the occipital bone.		
	PARIETAL BONE: Anatomy, biomechanics, diagnosis, medical pathology, osteopathic pathology and techniques for the Parietal bone.		
CRANIAL OSTEOPATHY II: TEMPOROMANDIBULAR JOINT I	Anatomy, biomechanics of the TMJ. The occlusion. TMJ pathology and diagnosis. Test and Techniques.	**60**	**15**
VISCERAL OSTEOPATHY I: DIGESTIVE SYSTEM. GENERAL FEATURES OF THE STOMACH, DUODENUM AND PANCREAS	Generalities	**70**	**21**
	Anatomy of the stomach		
	The physiology of the movement		
	Osteopathic pathology of the stomach		
	Visceral diagnosis of the stomach		
	Digestive physiology of the stomach		
	stomach treatment techniques		
	Duodenum		
	Pancreas		

THE FASCIAL SYSTEM: 1st PART.	History of myofascial release, embryology and histology, functional classification, differences between neuromuscular and myofascial trigger points, myofascial chains, generalities of creeping techniques, fascial creeping techniques.	**60**	**15**
IMMUNE-NEUROENDOCRINE SYSTEMS INTERACTIONS III (INE)	clinical immunology. Biochemistry by diet and lifestyle, Digestive system, Pancreas.	**20**	
MEDICAL PATHOLOGY III	**NERVOUS SYSTEM I: ANATOMY, PHYSIOLOGY, SEMIOLOGY AND PATHOLOGY.** General morphology of the CNS, vascularization, functional organization of the central nervous system, consciousness, memory, higher functions of the CNS, morphological and functional foundations of pain, sensory and motor pathways, pain control systems, peripheral nervous system, autonomic nervous system.	**20**	
	NERVOUS SYSTEM II: SEMIOLOGY. General assessment of the neurological patient, Diagnostic tests, Mental status, Language, Cranial nerves, Motor system, Coordination, gait and statics, Muscular and osteotendinous reflexes, Peripheral nervous system, Autonomic nervous system.	**20**	
	NERVOUS SYSTEM III: PATHOLOGY. Classification, Neurological syndromes, Infectious diseases, Atrophic diseases, Dementias, Demyelinating diseases, Neuropathies, Neuromuscular disorders. Other disorders.	**20**	
	GASTROENTEROLOGY I: ANATOMY, PHYSIOLOGY AND PATHOLOGY OF THE DIGESTIVE SYSTEM. Anatomy of the digestive system, physiology of the digestive system and pathology of the digestive system	**15**	

RADIOLOGY III	Complementary tests: diagnostic imaging III. Radiological anatomy of the abdomen and skull traumatology.	**20**	
RESEARCH METHODOLOGY III	The study protocol, Measurement devices, Sampling methods, Calculation of the sample size, The pilot study, The study variables, The study selection criteria.	**118**	

4th COURSE

OSTEOPATHY PROGRAM 5 YEARS
4th COURSE

SEMINARS	SUBJECTS	THEORETICAL HOURS	PRACTICAL HOURS
CRANIAL OSTEOPATHY II: ETHMOID AND FRONTAL BONE. SKULL: BONES OF THE FACE, PALATINE, LACRIMAL BONE, VOMER, NASAL BONES.	**FRONTAL:** Anatomy, biomechanics, diagnosis, dysfunction and treatment.	**60**	**15**
	ETHMOID: Anatomy, biomechanics, diagnosis, dysfunction and treatment.		
	NASAL BONES: Anatomy, biomechanics, diagnosis, dysfunction and treatment.		
	PALATINE, LACRIMAL BONE, VOMER: Anatomy, biomechanics, diagnosis, dysfunction and treatment.		
CRANIAL OSTEOPATHY III: TEMPOROMANDIBULAR JOINT II	Frontal head analysis, tongue, malar bone, upper jaw, facial muscles, hyoid system, dental occlusion, trigeminal neuralgia.	**60**	**15**
STRUCTURAL OSTEOPATHY IV: THE SACRUM	Anatomy	**70**	**15**
	Biomechanics of the sacrum		
	Dysfunctions of the sacrum		
	Differential diagnosis of the sacrum		
	Osteopathic diagnosis of the sacrum		
	Techniques for the sacrum		

VISCERAL OSTEOPATHY II: GYNECOLOGY, PROSTATE AND COCCYS.	Female reproductive system: anatomy and pathophysiology. osteopathic techniques. Anatomy and pathophysiology of the prostate. Techniques. Anatomy of the coccyx, tests and techniques.	**70**	**21**
VISCERAL OSTEOPATHY II: INTESTINE, BILE DUCT AND LIVER	Concepts of visceral osteopathy, anatomy, physiology, differential diagnosis, pathology and liver techniques. Anatomy and physiology of the intestines, intestinal dysfunctions, intestinal pathology and techniques.	**70**	**21**
FASCIAL SYSTEM: 2nd PART	Fascial dysfunctions, fascial diagnosis, fascial release, fascial techniques, general information about craniosacral therapy, osteopathic treatment techniques.	**30**	**21**
ENDOCRINOLOGY IN OSTEOPATHY I	Introduction to endocrinology. Inflammation and its relationships with the autonomic and endocrine nervous systems. Integration of osteopathy in the endocrine approach. Importance of the autonomic nervous system.	**50**	
MEDICAL PATHOLOGY IV	**GASTROENTEROLOGY II: SEMIOLOGY AND INTESTINAL PATHOLOGY AND SEMIOLOGY AND HEPATOBILIARY PATHOLOGY** Methods of examination of the intestines, warning signs, medical pathology. Hepatobiliary biology, Semiology of the hepatobiliary system. **GYNECOLOGY I: ANATOMY, PHYSIOLOGY AND PATHOLOGY**. Gynecological anatomy, physiology and medical pathology.	**25** **20**	
IMMUNE-NEUROENDOCRINE SYSTEMS INTERACTIONS IV (INE)	Gynecology: aetiopathogenesis of amenorrhea and dysmenorrhea, sterility, male infertility, congestive prostatitis. Hepatology: jaundice, liver and vagus nerve, intestines, somatic pain, intestine and vagus nerve.	**20**	

RADIOLOGY IV	Complementary tests: diagnostic imaging IV. Introduction, Classification of diseases rheumatology, General evaluation, Analytics in rheumatology, Differential diagnosis of mono and polyarthritis. Regional musculoskeletal diseases. Other rheumatic diseases.	**20**	
RESEARCH METHODOLOGY IV	Biostatistics, Statistical analysis, critical reading of scientific information, Analysis of scientific evidence. Writing a scientific article to obtain the D.O.	**118**	

5th COURSE

OSTEOPATHY PROGRAM 5 YEARS
5th COURSE

SEMINARS	SUBJECTS	THEORETICAL HOURS	PRACTICAL HOURS
OPHTHALMOLOGY AND OTORHINOLARYNGOLOGY	**OPHTHALMOLOGY:** anatomy, osteopathic diagnosis and pathology of the eye. The eye and cranial dysfunctions, osteopathic treatment.	**68**	**21**
	OTORHINOLARYNGOLOGY: anatomy and dysfunctions of the throat, tinnitus, otitis, sinusitis, vertigo.		
OSTEOPATHY AND ARTERIAL SYSTEM	Arterial physiology, arterial dysfunction, pulses. Arterial diagnosis, abdominal arteries, thoracic arteries, cervicocephalic arteries, arteries of the upper limbs, arteries of the lower limbs. Dysfunction, diagnosis and osteopathic treatment techniques.	**68**	**21**
STRUCTURAL OSTEOPATHY V: CRANIOCERVICAL JUNCTION: OCCIPITAL BONE, ATLAS AND AXIS VERTEBRAE	Generalities, occipital condyles, the atlas, vascularization of the skull, dizziness, migraines and headaches, the axis, test and osteopathic treatment techniques.	**70**	**21**

VISCERAL OSTEOPATHY III: HEART, LUNG, KIDNEYS, BLADDER AND LYMPHATIC SYSTEM	**HEART AND STERNUM:** Presentation of the cardiac diagnosis. Anatomy and physiology of the heart. Osteopathic pathophysiology, osteopathic diagnosis in cardiology, treatment protocol and techniques. Anatomy, physiology, dysfunctions, osteopathic diagnosis and techniques of the sternum.	**70**	**30**
	LUNG: Lung Anatomy, Respiratory Physiology, Osteopathic Diagnosis of the Lung, Osteopathic Physiopathology, Thoracic Radiodiagnosis, Protocol and Treatment Techniques.		
	LYMPHATIC SYSTEM: Lymph nodes, Mechanisms that determine the flow, Notions of immunity, Microbiological considerations and infectious diseases, dysfunctions and differential diagnosis of the lymphatic system, Techniques for the Lymphatic System		
	KIDNEYS: Renal anatomy and physiology, kidney dysfunctions and diagnosis, dysfunctions and differential diagnosis. Treatment techniques. Anatomy, physiology and pathology of the bladder. Osteopathic diagnosis and treatment techniques.		
OSTEOPATHY AND PEDIATRICS I	Anatomy of the skull, fontanelles and sutures of the newborn, osteology, development and growth of the skull. Childbirth: childbirth generalities, dystocia, craniofacial disorders in the newborn, pathologies of the newborn, examination and treatment techniques.	**68**	**21**
OSTEOPATHY AND PEDIATRICS II	Problems of childbirth, neonatal pathologies, newborn techniques.	**68**	**21**
ENDOCRINOLOGY IN OSTEOPATHY II	Visceral Endocrinology. Hypothalamic-pituitary-adrenal axis. Thyroid. Andrology and Gynecology.	**50**	
IMMUNE-NEUROENDOCRINE SYSTEMS INTERACTIONS V (INE)	Cardiology, Pulmonology, Nephrology.	**20**	

MEDICAL PATHOLOGY V	**CARDIOLOGY: ANATOMY, PHYSIOLOGY AND PATHOLOGY.** Cardiac anatomy and pathophysiology. Cardiac examination and pathology.	**20**	
	LYMPHATIC SYSTEM The lymph, structure and circulation of the lymphatic system. Summary of lymph node groups used in lymphatic drainage. Immunity. Hypersensitivity reactions	**15**	
	VASCULAR SYSTEM Classification of blood vessels, structure, nutrition and innervation of blood vessels. Arterial and venous system. Physiology of the vascular system.	**25**	
	UROLOGY Urological clinical examination, Congenital urogenital anomalies, Urinary tract infection, Sexually transmitted diseases, other pathologies.	**15**	
	NEPHROLOGY Renal anatomophysiology, Semiology of kidney and urinary tract diseases, Urinary tract signs and symptoms, urine tests, Syndromes and renal pathology, The kidney and systemic diseases.	**25**	
	INFECTOLOGY Community-acquired pulmonology, nosocomial infections, upper respiratory infections, sexually transmitted diseases.	**20**	
	HEMATOLOGY Pathology in hematology	**20**	
	PULMONOLOGY I: ANATOMY, PHYSIOLOGY AND PATHOLOGY Anatomy and physiology of the respiratory system, examination of respiratory function, clinical examination techniques of the respiratory system. Respiratory medical pathology.	**20**	
RADIOLOGY V	Complementary tests: diagnostic imaging V.	**20**	

OSTEOPATHIC CLINICAL REASONING AND ADVANCED TECHNIQUES.	Clinical Cases in classroom and supervised clinical practice.		**409**

PSYCHOLOGICAL FACTORS IN THE THERAPIST-PATIENT RELATIONSHIP	Psychological concepts of interest in the therapeutic relationship, understanding the patient and their behavior facing the problem. Attributional styles, action tendencies, attachment theory or polyvagal theory. Objective: to achieve a more solid therapeutic relationship with which to help our patient.	**5**	
STRATEGIES FOR A SUCCESSFUL PROFESSIONAL CAREER	Personal development skills. The concept of personal and professional branding. Financial Freedom. professional independence. Salary levels and comfort zone. Mental attitude and expectations. Goals and career planning. Relationship management. Leadership, talents and personal brand. limitations to your personal and professional development. The concept of facilitators. The loyalty of patients. Disciplinary and methodological learning, diagnostic capacity, decision and therapeutic implementation. Focus efforts. Maximize results. Construction network of alliances. Development of personal values.	**10**	

OSTEOPATHY PROGRAM 5 YEARS

TOTAL THEORETICAL-PRACTICAL HOURS	**3350**	**1000**
TOTAL HOURS	**4350**	
TOTAL CREDITS	**174**	