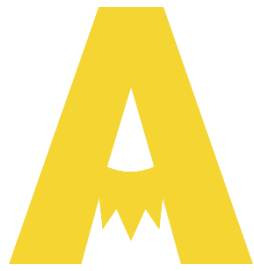


POLITÉCNICA SANTA ROSA



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University*

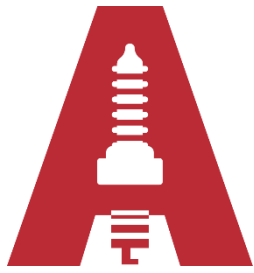
INFORMATION ABOUT OUR BACHELOR PROGRAMS



VISUAL EFFECTS AND ANIMATION ENGINEERING PROGRAM

ENGLISH IMMERSION COURSE	FIRST TERM			SECOND TERM			THIRD TERM			INTERNSHIP		
	1	2	3	4	5	6	7	8	9		10	
	ENGLISH I	ENGLISH II	ENGLISH III	ENGLISH IV	ENGLISH V	ENGLISH VI	ENGLISH VII	ENGLISH VIII	ENGLISH IX			
	INGI-TR 5-90-5	INGII-TR 5-90-5	INGIII-TR 5-90-5	INGIV-TR 5-90-5	INGV-TR 5-90-5	INGVI-TR 5-90-5	INGVII-TR 5-90-5	INGVIII-TR 5-90-5	INGIX-TR 5-90-5			
	HUMAN VALUES	EMOTIONAL INTELLIGENCE	INTERPERSONAL DEVELOPMENT	THINKING SKILLS	ORGANIZATIONAL SKILLS	ETHICS	MARKET RESEARCH	PROJECT MANAGEMENT	ENTREPRENEURSHIP			
	VAS-TR 3-45-3	INE-TR 3-45-3	DEI-TR 3-45-3	HAP-TR 3-45-3	HAO-TR 3-45-3	ETP-TR 3-45-3	GEP-ES 4-75-5	EMP-ES 5-90-6	INM-ES 4-90-6			
	ART HISTORY AND ANIMATIO	DIGITAL DRAWING	ANIMATION FUNDAMENTALS	2D ANIMATON	3D CHARACTER MAKEUP	3D PAINTING	ADVANCED 3D ANIMATION TECHNIQUES	ADVANCED RIGGING	AUDIOVISUAL PRODUCTION			
	TAM-ES 5-105-6	HAA-ES 4-75-5	ANI-ES 5-120-7	NAR-ES 4-75-5	STO-ES 4-90-6	PAI-ES 3-75-5	FUE-ES 4-75-5	PEE-ES 4-105-6	COE-ES 4-75-5			
	ALGORHYTHM DESIGN	ARTISTIC DRAWING AND REPRESENTATION TECHNIQUES	SEMIOTICS AND CHARACTER CREATION	3D MODELING BASICS	SCENARY DESIGNS ON MOCKUPS	FILMMAKING TECHNIQUES	PRODUCTION OF VISUAL ECVETS FUNDAMENTALS	DYNAMICS AND FLUIDS	FUR AND CLOTHER DYNAMICS			
	HEO-ES 4-75-5	TCP-ES 5-90-6	CPP-ES 4-75-5	CAP-ES 5-105-6	SOC-ES 4-75-5	TEC-ES 5-90-6	DIF-ES 4-90-6	DIM-ES 4-105-6	DIP-ES 3-90-6			
STORYTELLING	SCRIPTWRITTING	STORYBOARDING	PROBABILITY AND STADISTICS	3D ANIMATION BASICS	RIGGING	OBJECT ORIENTED PROGRAMMING	VISUAL EFFECTS COMPOSITING	RENDERING				
DIA-ES 6-105-6	DID-ES 5-90-6	IMO-ES 5-105-6	SEM-ES 4-75-5	INA-ES 4-105-6	ESC-ES 5-105-6	SIM-ES 4-75-5	DAR-ES 4-75-5	REN-ES 5-90-6				
HUMAN AND ANIMAL ANATOMY	COLOR THOERY	MODELING WORKSHOP	PHOTOGRAPHY PRINCIPLES	PHOTO EDITING AND COMPOSITION	PROGRAMMING LOGICS	FILMMAKING	3D PAINTING	VIDEO GAME PROGRAMMMG FOR MOBILES				
AHA-ES 5-90-6	CAL-CV 5-90-6	PRE-CV 5-90-6	FUF-ES 4-90-6	EDF-ES 4-90-6	DEM-ES 4-90-6	DIR-ES 3-75-5	ANE-ES 3-60-4	PRI-ES 4-75-5				
LINEAR ALGEBRA	CALCULUS	PHISICS FUNDAMENTALS	STAY I	AUDIO RECORDING	AUDIO DESIGN	STAY II	VIDEOGAME ENGINES	POST PRODUCTION				
ALG-CV 5-90-6	FUF-CV 6-120-7	ANH-ES 4-75-5	120-7	GRA-ES 6-105-6	DAU-ES 6-105-6	120-7	CIN-ES 3-75-5	POS-ES 5-90-6				

 Subjects taught in English



AUTOMOTIVE SYSTEMS ENGINEERING PROGRAM

ENGLISH IMMERSION COURSE	FIRST TERM			SECOND TERM			THIRD TERM			INTERNSHIP	
	1	2	3	4	5	6	7	8	9		10
	ENGLISH I	ENGLISH II	ENGLISH III	ENGLISH IV	ENGLISH V	ENGLISH VI	ENGLISH VII	ENGLISH VIII	ENGLISH IX		
	INGI-TR 9-135-9	INGII-TR 9-135-9	INGIII-TR 7-105-7	INGIV-TR 5-75-5	INGV-TR 5-75-5	INGVI-TR 5-75-5	INGVII-TR 5-75-5	INGVIII-TR 5-75-5	INGIX-TR 5-75-5		
	HUMAN VALUES VAS-TR 3-45-3	EMOTIONAL INTELLIGENCE INE-TR 3-45-3	INTERPERSONAL DEVELOPMENT DEI-TR 3-45-3	THINKING SKILLS HAP-TR 3-45-3	ORGANIZATIONAL SKILLS HAO-TR 3-45-3	ETHICS ETP-TR 3-45-3	ECONOMICAL ENGINEERING INE-ES 5-75-5	IMPULSION SYSTEMS SII-ES 5-75-5	AUTOMOTIVE INTELLIGENT SYSTEMS SIA-ES 6-90-6		
	LINEAR ALGEBRA ALL-CV 6-90-6	VECTOR CALCULUS CAV-CV 6-90-6	DIFFERENTIAL EQUATIONS ECD-CV 8-120-8	STATISTICS AND PROBABILITY PRE-CV 6-90-6	THERMODYNAMICS TER-CV 6-90-6	QUALITY ASSURANCE SIC-ES 6-90-6	QUALITY STATISTICS CONTROL COE-ES 5-75-5	PNEUMATIC AND HYDRAULIC SYSTEMS SDF-ES 6-90-6	MULTIPHYSIC ANALYSIS ANM-ES 5-75-5		
	INTEGRAL AND DIFFERENTIAL CALCULUS CDI-CV 8-120-8	COMPUTER BASED DRAWING DIC-ES 6-90-6	AUTOTRONICS AUT-ES 6-90-6	DYNAMICS ELM-CV 6-90-6	INDUSTRIAL PROCESSES PRI-ES 6-90-6	CONTROL AND INSTRUMENTATION SIP-ES 6-90-6	AUTOMOTIVE MANUFACTURE CAE MNA-ES 6-90-6	AUTOMOTIVE MECHANIC DESIGN SCA-ES 5-75-5	COST SCO-ES 6-90-6		
	STATICS EST-CV 6-90-6	AUTOMOTIVE MATERIALS MTA-ES 6-90-6	AUTOMOTIVE STRUCTURAL ANALYSIS AEA-ES 6-90-6	SENSORS AND ACTUARIOS SEA-ES 5-75-5	AUTOMOTIVE MECHANISMS MAU-ES 7-105-7	PRODUCTION ASSESMENT COP-ES 6-90-6	PROJECT PLANNING FEP-ES 5-75-5	ALTERNATIVE AUTOMOTIVE ENGINES MAA-ES 6-90-6	AUTOMOTIVE DESIGN DIA-ES 6-90-6		
	ENGINEERING DRAWING DII-ES 6-90-6	AUTOMOTIVE ELECTRICITY ELA-ES 7-105-7	AUTOMOTIVE ELECTRONICS EUA-ES 6-90-6	AUTOMOTIVE ELECTRIC ENGINES MET-ES 6-90-6	NUMERIC METHODS SAU-ES 7-105-7	AUTOMOTIVE MANUFACTURE CAM Y CNC MCC-ES 7-105-7	PLASTIC TECHNOLOGY TEP-ES 5-75-5	MECHANICAL VIBRATIONS VIM-ES 6-90-6	RESEARCH PROJECT PRN-ES 5-75-5		
	AUTOMOTIVE METROLOGY MEA-ES 5-75-5	MATERIAL RESISTANCE REM-ES 6-90-6	AUTOMOTIVE ENGINES MOA-ES 5-75-5	STAY I ESTI-ES 8-120-8	ERGONOMICS ERG-ES 5-75-5	HEATH TRANSFER TRC-ES 6-90-6	STAY II ESTII-ES 8-120-8	INTERNATIONAL COMMERCE COI-ES 6-90-6	MARKETING PRM-ES 6-90-6		

Subjects taught in English



INDUSTRIAL METROLOGY ENGINEERING PROGRAM

	FIRST TERM			SECOND TERM			THIRD TERM			
	1	2	3	4	5	6	7	8	9	10
ENGLISH IMMERSION COURSE	ENGLISH I INGI-TR 9-135-9	ENGLISH II INGII-TR 9-135-9	ENGLISH III INGIII-TR 7-105-7	ENGLISH IV INGIV-TR 5-75-5	ENGLISH V INGV-TR 5-75-5	ENGLISH VI INGVI-TR 5-75-5	ENGLISH VII INGVII-TR 5-75-5	ENGLISH VIII INGVIII-TR 5-75-5	ENGLISH IX INGIX-TR 5-75-5	
	HUMAN VALUES VAS-TR 3-45-3	EMOTIONAL INTELLIGENCE INE-TR 3-45-3	INTERPERSONAL DEVELOPMENT DEI-TR 3-45-3	THINKING SKILLS HAP-TR 3-45-3	ORGANIZATIONAL SKILLS HAO-TR 3-45-3	ETHICS ETP-TR 3-45-3	ELECTRONICS FUNDAMENTALS FUE-ES 6-90-6	INSTRUMENTATION AND CONTROLS INC-ES 6-90-6	ELECTRIC METROLOGY MEE-ES 6-90-6	
	LINEAR ALGEBRA ALL-CV 6-90-6	PROBABILITY AND STATISTICS PRE-CV 6-90-6	DESIGN OF EXPERIMENTS ESA-ES 6-90-6	STATIC EST-CV 6-90-6	DYNAMICS DIN-CV 5-90-6	THERMODYNAMICS TER-CV 6-90-6	HEAT TRANSFER TRC-ES 6-90-6	THERMOMETRY TER-ES 6-90-6	MASS METROLOGY MEM-ES 6-90-6	
	CHEMISTRY QUI-CV 8-120-8	DIFFERENTIAL CALCULUS EQQ-ES 6-90-6	INTEGRAL CALCULUS QUA-ES 7-105-7	ANALYTICAL INSTRUMENTATION INA-ES 6-90-6	STATISTICAL PROCESS CONTROL CEP-ES 6-90-6	VECTORIAL CALCULUS MEQ-ES 6-105-7	PHISICS METROLOGY MEF-ES 5-75-5	MECHANICAL VIBRATIONS VIM-ES 6-90-6	PRESSURE & FORCE & TORQUE METROLOGY MFP-ES 6-90-6	
	BASICS OF PHYSICS FUF-CV 8-120-7	CHEMICAL INSTRUMENTATION CDI-CV 8-120-7	CHEMICAL METROLOGY CAV-CV 6-90-6	DIFFERENTIAL EQUATIONS ECD-CV 6-90-6	UNCERTAINTY CALCULATION ESI-ES 6-90-6	DESIGN OF EXPERIMENTS DIE-ES 6-90-6	FORMULATION AND EVALUATION OF PROJECTS ACL-ES 5-75-5	CORE TOOLS SGC-ES 6-90-6	MEASUREMENT SYSTEMS DESIGN DSM-ES 6-90-6	
	BASIC METROLOGY MEB-ES 5-75-5	COMPUTER DRAWING ELM-CV 6-90-6	ENGINEERING DRAWING DII-ES 6-90-6	UNCERTAINTY ESTIMATION DIC-ES 6-90-6	METHODS VALIDATION VAM-ES 6-90-6	DIMENSIONAL METROLOGY MED-ES 7-105-7	STRENGTH OF MATERIALS REM-ES 6-90-6	ELECTIVE COURSE OP-ES 5-75-5	ELECTIVE COURSE OP-ES 5-75-5	
	RESEARCH METHODOLOGY MEI-ES 4-60-4	PROCESS MAPPING AND QUALITY MAP-ES 5-75-5	INDUSTRIAL PROCESSES PRI-ES 6-90-6	STAY I ESTI-ES 7-105-5	GD&T TECHNOLOGYS TEG-ES 7-105-7	LEGAL METROLOGY AND LABORATORY ACREDITATION MEL-ES 5-75-5	STAY II ESTII-ES 7-105-5	ELECTIVE COURSE OP-ES 5-75-5	ELECTIVE COURSE OP-ES 5-75-5	
										INTERNSHIP

Subjects taught in English



PHYSICAL THERAPY PROGRAM

ENGLISH IMMERSION COURSE	FIRST TERM			SECOND TERM			THIRD TERM			INTERNSHIP											
	1	2	3	4	5	6	7	8	9		10										
	English I	English II	English III	English IV	English V	English VI	English VII	English VIII	English IX												
	INGI-TR	9-135-9	INGII-TR	9-135-9	INGIII-TR	7-105-7	INGIV-TR	5-75-5	INGV-TR		5-75-5	INGVI-TR	5-75-5	INGVII-TR	5-75-5	INGVIII-TR	5-75-5	INGIX-TR	5-75-5		
	Human Values	Emotional Intelligence	Interpersonal development	Thinking skills	Organizational skills	Professional ethics	Principles of Pharmacology	Physical therapy in obstetrics and pelvic floor dysfunction	Orthotics and Prosthetics												
	VAS-TR	3-45-3	INE-TR	3-45-3	DEI-TR	3-45-3	FBF - ES	4-60-4	TOP - ES		4-60-4	OYP - ES	5-75-5								
	Fundamentals of Anatomy	Body systems	Neuroanatomy	Upper limb Biomechanics	Lower extremity Biomechanics	Physical Therapy Techniques	Functional therapeutic exercises	Physical therapy with the elderly	Psychology in Physical Therapy												
	FAN - ES	6-90-6	SIC - ES	5-75-5	NAN - ES	5-75-5	EFT - ES	5-75-5	TAM - ES		5-75-5	PTF - ES	4-60-4								
	Cell and Molecular Biology	Biochemistry Fundamentals	Human Physiology	Human pathophysiology	Exercise Physiology	Therapeutic physical training	Cardiorespiratory physical therapy	Trauma rehabilitation	Physical therapy in orthopedics												
	BCM - ES	6-90-6	FBQ - ES	5-75-5	FHU - ES	6-90-6	TCR - ES	5-75-5	TFT - ES		6-90-6	TFO - ES	5-75-5								
Physics applied to physical therapy	Anatomy of head, neck and extremities	Assessment of muscle function	Rating joint function and posture	Prehospital care	Fundamentals of medical Imaging	Manual therapy	Differential Diagnosis in Physical Therapy	Teaching													
FAT - ES	5-75-5	ACE - ES	6-90-6	VFM - ES	5-75-5	TMA - ES	6-90-6	DFT - ES	3-45-3	DOC - ES	5-75-5										
Research Methodology	Biostatistics	Clinical propaedeutic in physical therapy	Neurodevelopment	Legislation and regulations in the health sector	Hospital administration	Pediatric Neuropathology	Low Vision Rehabilitation	Elective													
MIN - ES	4-60-4	BIE - ES	5-75-5	CPT - ES	6-90-6	NHP - ES	6-90-6	TDV - ES	4-60-4		6-90-6										
Introduction to physical therapy	Therapeutic physical agents	Neurophysiology	Elective	Adult Neuropathology	Neurological physical therapy in adults	Elective	Pediatric Neurologic Physical Therapy	Elective													
ITF - ES	6-90-6	AFT - ES	6-90-6	NFI - ES	5-75-5		6-90-6	TNP - ES	6-90-6		6-90-6										

Subjects taught in English



SOFTWARE ENGINEERING PROGRAM

FIRST TERM			SECOND TERM			THIRD TERM			10
1	2	3	4	5	6	7	8	9	
ENGLISH I	ENGLISH II	ENGLISH III	ENGLISH IV	ENGLISH V	ENGLISH VI	ENGLISH VII	ENGLISH VIII	ENGLISH IX	
135-9	135-9	105-7	75-5	75-5	75-5	75-5	75-5	75-5	
BASIC CHEMISTRY	HUMAN DEVELOPMENT	EMOTIONAL INTELLIGENCE AND CONFLICT MANAGEMENT	ACADEMIC SKILLS DEVELOPMENT	ETHICS	MANAGEMENT SKILLS	LEADERSHIP AND HIGH PERFORMANCE TEAM BUILDING	COMPILERS AND INTERPRETERS	SOFTWARE PROJECT MANAGEMENT	
75-5	45-3	45-3	45-3	45-3	45-3	45-3	90-6	90-6	
LINEAR ALGEBRA	DIFFERENTIAL CALCULUS	INTEGRAL CALCULUS	MATHEMATICAL ENGINEERING I	MATHEMATICAL ENGINEERING II	STATISTICS AND PROBABILITY	LANGUAGES AND AUTOMATA	MOBILE PROGRAMMING I	INFORMATIONS SECURITY	
90-6	60-4	75-5	90-6	90-6	90-6	75-5	90-6	90-6	
COMPUTING FOUNDATIONS	OBJECT ORIENTED PROGRAMMING	ADVANCED DATA STRUCTURE	INTERFACE DESIGN	NETWORK FOUNDATIONS	COMPUTER ARCHITECTURE	CONCURRENT PROGRAMMING	ARTIFICIAL INTELLIGENCE	DATA MINING	
90-6	60-4	60-4	90-6	90-6	90-6	90-6	90-6	90-6	
ALGORYTHMS	DATA STRUCTURE	DATA BASES FOUNDATIONS	WEB PROGRAMMING	CUSTOMER/SERVER PROGRAMMING	NETWORKS	SOFTWARE TESTING	SOFTWARE FINANCIAL ANNALYSIS	MOBILE PROGRAMMING II	
90-6	90-6	90-6	105-7	90-6	90-6	90-6	75-5	90-6	
DISCREET MATHEMATICS	INGINIERIA DE SOFTWARE ASISTIDA POR COMPUTADORA	VISUAL PROGRAMMING	ELECTRICITY AND MAGNETISM	SOFTWARE ARCHITECTURE	SOFTWARE QUALITY	OPERATIVE SYSTEMS	MULTIMEDIA AND DIGITAL DESIGN	SERVICE ORIENTED ARCHITECTURE	
90-6	90-6	90-6	90-6	90-6	105-7	90-6	90-6	75-5	
SPEAKING AND WRITING SKILLS	SOFTWARE DEVELOPMENT PROJECT	ADVANCED DATA STRUCTURE	DATABASES	DATABASES FOUNDATIONS	SHORT STAY I	SHORT STAY II	SOFTWARE MAINTENANCE	ORAL AND WRITING SKILLS DEVELOPMENT	
75-5	75-5	75-5	90-6	105-7	90-6	120-8	75-5	75-5	

ENGLISH IMMERSION COURSE

INTERNSHIP

Subjects taught in English