DOCTORATE IN PHYSICAL SCIENCE

UNIVERSIDAD ANDRÉS BELLO

	YEAR 1		YEAR 2		YEAR 3		YEAR 4	
	SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV	SEMESTER V	SEMESTER VI	SEMESTER VII	SEMESTER VIII
CORE COURSES	ANALITYCAL MECHANICS DCF 100	MODERN STATISCAL PHYSICS DCF 103	COMMUNICATION AND ETHICS WORKSHOP DCF 200					
	CLASSICAL ELECTRODYNAMICS DCF 101	ADVANCED QUANTUM MECHANICS DCF 104						
		QUALIFYING EXAM DCF 106						
ELECTIVE COURSES	ELECTIVE I DCF 102	ELECTIVE II DCF 105	ELECTIVE III DCF 201					
THESIS ACTIVITIES			THESIS PROJECT / THESIS PROJECT DEFENSE DCF 202	DOCTORAL THESIS I DCF 203	DOCTORAL THESIS II DCF 300	DOCTORAL THESIS III DCF 301	DOCTORAL THESIS IV DCF 400	DOCTORAL THESIS V DCF 401
								PRIVATE THESIS DEFENSE DCF 402
								PUBLIC THESIS DEFENSE DCF 403

ELECTIVE COURSES IN HIGH ENERGY PHYSICS AND GRAVITATION

- QUANTUM FIELD THEORY I
- GENERAL RELATIVITY AND COSMOLOGY
- ADVANCED COSMOLOGY
- PHYSICS OF THE STANDARD MODEL
- ADVANCED GRAVITATION AND HOLOGRAPHY
- GROUP THEORY IN PHYSICS
- TOPICS IN STRING THEORY

ELECTIVE COURSES IN CONDENSED MATTER PHYSICS

- SOLID STATE PHYSICS
- COMPUTATIONAL METHODS IN SOLID STATE PHYSICS
- QUANTUM FIELD THEORY IN CONDENSED MATTER
- RELATIVISTIC QUANTUM MECHANICS
- ADVANCED TOPICS IN STATISTICAL PHYSICS
- ADVANCED TOPICS IN SOLID STATE PHYSICS

ELECTIVE COURSES IN PARTICLE PHYSICS

- PARTICLE PHYSICS
- QUANTUM FIELD THEORY II
- EXPERIMENTAL PARTICLE PHYSICS
- ADVANCED PARTICLE THEORY

ELECTIVE COURSES IN PLASMA PHYSICS

- PLASMA PHYSICS
- DIAGNOSTIC TECHNIQUES IN PLASMA PHYSICS
- RADIATION PHYSICS AND DOSIMETRY
- ADVANCED LABORATORY IN PLASMA PHYSICS
- ADVANCED TOPICS IN PLASMA PHYSICS
- ADVANCED TOPICS IN EXPERIMENTAL OPTICS