

UNIVERSIDAD NACIONAL DEL SUR		1	2
BAHIA BLANCA		ARGENTINA	
DEPARTAMENTO DE MATEMÁTICA			
PROGRAMA DE:		Curso	
Set Theory: An Introduction To Independence Proofs		Posgrado	
HORAS		PROFESOR RESPONSABLE	
40 (cuarenta)		Dr. Giorgio VENTURI	
REQUISITOS PREVIOS			
To have knowledge about Model Theory and Set Theory.			
DESCRIPCIÓN			
We will give a full proof of the independence of CH from the ZFC axioms. We will discuss some model-theoretic techniques to applied set theory.			
OBJETIVOS			
We aim to give tools for producing a new independeces proofs.			
MOTIVACIÓN O FUNDAMENTACIÓN DEL CURSO			
The course will exhibit a presentation of the most fundamental constructions and techniques of the modern Set Theory; e.g., the Gödel class L of all constructible sets and Forcing.			
MECANISMO DE EVALUACIÓN			
A seminar will be required to complete the the course.			
PROGRAMA			
We will review some basic notion of set theory like cardinals and ordinals. Then, we will introduce the constructible hierarchy L to prove the consistency of ZFC + CH. Then, we will introduce the forcing technique and the relative notions of boolean valued to proof the consistency of ZFC+ ¬CH.			
AÑO	2019		

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BIBLIOGRAFIA

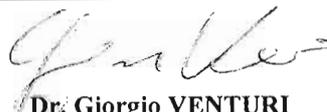
- Kenneth Kunen, "Set Theory", College Publications (2011), segunda edición. Revised edition, 2013.

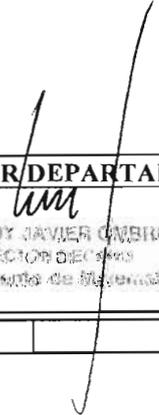
AÑO

PROFESOR RESPONSABLE

DIRECTOR DEPARTAMENTO

2019


 Dr. Giorgio VENTURI


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 DIRECTOR DEPARTAMENTO
 Departamento de Matemática

AÑO

2019