入 学

前

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基礎数学

微積分学、線形代数学など

右のいずれかの 基礎事項を修得 している

複素関数、フーリエ解析、 数値解析、グラフ理論など

システム数理 線型計画、最適化、 制御理論など

数理物理学 古典力学、微分方程式、 統計力学など

Doctoral Program (Informatics)		
3 rd	Doctoral Thesis	
2 nd	Subjects provided by the Course (total 6 credits including 4 credits from seminars) Seminar on Applied Mathematics and Physics, Advanced A, B, E (2 credits) Seminar on Applied Mathematics, Advanced, E Seminar on Applied Mathematical Systems, Advanced, E Seminar on Mathematical Physics, Advanced, E (2 credits each)	Research Guidance

Master's Program (Informatics) Master's Thesis Subjects provided by the Course 2nd Seminars and exercises (Optional 12 credits or more from the recommended subjects provided by the other Course. 8 or more credits are required from the subjects provided for Master's Thesis by the Course and "Computational Science, Introduction" of the general subject provided by the School.) (Mandatory 10 credits) Seminar Subjects **Advanced Subjects** Seminar in Mathematical Analysis, Seminar in Advanced Study in Social Mathematical Analysis, Adv., Discrete Mathematics, Adv., Control Systems Theory, Discrete Mathematics, Seminar in System Adv., Optimization Theory, Adv., Physical Statistics, Adv., Dynamical Systems, Adv. Informatics 2E (Assigned to Optimization, Seminar in Control Systems Theory Introduction to Mathematical Finance (2 credits each) M2, 5 credits) Seminar in Physical Statistics, Seminar in Dynamical Financial Engineering, Topics in Applied Mathematics and Physics A Systems Topics in Applied Mathematics and Physics B (1 credit each) Advanced Study in Social Recommended Subjects provided by other Informatics 1E (Assigned to Basic Subjects (2 credits each) **Courses** M1, 5 credits) Pattern Recognition Adv. E (IST), other 11 subjects Operations Research Adv., Mathematical Physics, Adv., Systems Analysis, Adv. General Subjects provided by the School (2 credits each) 1st Perspectives in Platform Studies (2 credits), Computational Science, Introduction (2 credits), Computational Science, Exercise A (1 credit), **Interdisciplinary Subjects of the Perspectives in Informatics** Information and Intellectual Property (2 credits), Innovation and (Mandatory 2 credits) Specific Information (2 credits), Information Analysis and Management (2 subjects Perspectives in Informatics 1 Perspectives in Informatics 2 credits), Information Analysis and Management, Exercise (1 credit) provided by Perspectives in Informatics 3E Perspectives in Informatics 4E Social Contributions through Informatics E (1 credit) Internship in the the school Perspectives in Informatics 5E (2 credits each) Field of Informatics E (1 credit)

Prior to admission

Basic Mathematics
Calculus, Linear algebra, etc.

Preferred to understand the subjects on the right

Applied Mathematics Complex functions, Fourier analysis, Numerical analysis, Graph theory, etc. Mathematical Systems
Linear programming, Optimization,
Control theory, etc.

Mathematical Physics Classical dynamics, Differential equation, Statistical mechanics, etc.

Note: Subjects marked with the letter "E" will be provided in English.