

**Postgraduate Program in Physics (PG-FIS)**

**Courses Offered 2nd Period 2021**

Area of Research: ATOMIC AND MOLECULAR PHYSICS (FIS-A) - Area Representative: André Chaves (andrejck@ita.br)

Area of Research: NONLINEAR DYNAMICS AND COMPLEX SYSTEMS (FIS-C) - Area Representative: Erico Rempel (rempe@ita.br)

Area of Research: NUCLEAR PHYSICS (FIS-N) - Area Representative: Odilon Lourenço (odilon.ita@gmail.com)

Area of Research: PHYSICS OF PLASMAS (FIS-P) - Area Representative: Argemiro Sobrinho (argemiro@ita.br)

Abbreviation	Course	Academic load	Preconditions		Maximum Credit	Professor(s)	Schedule for the 1st day of class
			Recommended	Required			
FF-201	Quantum Mechanics I	4-0-0-8	FF-207	None	3	André Jorge Carvalho Chaves	Tuesday from 14h00 to 17h30
FF-281	Solid State Physics I	3-0-0-6	None	FF-201 or FF-253	3	Lara Kühn Teles	Wednesday at 8h30
FQ-297	Introduction to COLUMBUS: An Electronic Structure Program with Multireferences	6-0-4-4	None	None	1	Francisco Bolivar Correto Machado and Hans Lischka	Planned for 15 days in the first two weeks of August. (Tuesday and Thursday from 10h00 to 12h00)
FM-223	Nonlinear Dynamics and Chaos I	4-0-0-4	None	None	3	Erico Luiz Rempel	Tuesday from 14h00 to 17h00
FM-235	Dinâmica de Missões Espaciais Modernas	4-0-0-4	None	None	3	Maisa de Oliveira Terra	Thursday at 9h00 or at 15h00
FF-203	Statistical Mechanics	4-0-0-8	None	None	3	Tobias Frederico and Manuel Maximo Bastos Malheiro de Oliveira	Friday from 13h30 to 17h30
FF-212	Computational Methods in Physics	4-0-0-8	FF-200 equivalent course	None	3	Brett Vern Carlson	Tuesday from 13h30 to 17h30
FF-230	Introduction to the Theory of General Relativity	3-0-0-6	None	None	3	César Henrique Lenzi and Pedro José Pompeia	Monday at 13h30
FF-235	Quantum Field Theory I	4-0-0-8	FF-202	None	3	Wayne Leonardo Silva de Paula	Tuesday at 14h00
FF-261	Plasma Physics I	4-0-0-8	None	None	3	Marisa Roberto	Thursday from 13h30 to 16h30
FF-264	Electrical Discharges and Plasmas I	3-0-0-6	FF-204 or FF-261	None	3	Rodrigo Sávio Pessoa and Homero Santiago Maciel	Thursday at 15h00
MT-201	Fundamentals of Materials Engineering	3-0-0-6	None	None	3	Argemiro Soares da Silva Sobrinho	Wednesday from 13h30 to 16h30
FF-321	Thesis Seminar I	1-0-0-2	None	None	1	Manuel Maximo Bastos Malheiro de Oliveira	To be defined
FF-322	Thesis Seminar II	1-0-0-2	None	None	-	Manuel Maximo Bastos Malheiro de Oliveira	To be defined
FF-500	Thesis		None	None	-	Advisor	
FF-601	Teaching Internship I		None	Coordinator's Consent	3	Manuel Maximo Bastos Malheiro de Oliveira	To be defined
FF-602	Teaching Internship II		None	Coordinator's Consent	-	Manuel Maximo Bastos Malheiro de Oliveira	To be defined