

## UNIVERSIDADE PRESBITERIANA MACKENZIE

Pró-Reitoria de Pesquisa e Pós-Graduação Coordenadoria Geral de Pós-Graduação Stricto Sensu



## SCHOOL PLAN

University Unit:		
Engineering school Graduate program:		
Geospatial Sciences and Applications		
Curse:		
Academic Master	Professiona	l Master's 🖂 Doctorate degree
Discipline :		
Space Geophysics		
Teacher (s):		
Jean Pierre Raulin		
Emilia Correia		
Discipline of a multidisciplinary nature		
Note:		
Required course for the Doctorate and optional for the Master.		
The Geospatial Science and Applications course is a multidisciplinary course encompassing research in Solar Physics, Terrestrial Solar Relations, Astronomy, Particle Physics and others. The course subjects reflect this multidisciplinarity and often require more than one teacher, who specializes in topics of the same discipline.		
Workload:	Credits	Required
48 h	4	Optional
Description:		
The upper atmosphere, ionosphere, plasmasphere, magnetosphere and the interplanetary environment consist of plasmas permeated by magnetic fields whose physical conditions are governed by solar activity. Ionospheric phenomena: plasma irregularities, ionospheric bubbles, scintillation, atmospheric forcing. And sporadic, effects of magnetic storms on the ionosphere. The knowledge of the phenomena of radiopropagation in these media is essential for scientific applications in radiopropagation and for the description of processes of interaction between the Sun and the Earth.		
Program content:		
List of themes, subjects and concepts that will be studied in the stage.		
Evaluation criteria		
According to the General Regulation of Stricto Sensu Post-Graduation, Art. 98:		
A - excellent: corresponds to grades in the interval between grades 9 and 10;		
B - good: corresponds to grades in the interval between grades 8 and 8.9;		
C - regular: corresponds to grades in the interval between grades 7 and 7.9;		
R - disapproved: corresponds to grades in the interval between degrees 0 and 6.9 "		



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## Bibliography: