



SCHOOL PLAN

University Unit: Engineering school
Graduate program: Geospatial Sciences and Applications
Curse: [X] Academic Master [] Professional Master's [X] Doctorate degree
Discipline : Space Plasmas
Teacher (s): Carlos Guillermo Giménez de Castro
Note: The Geospatial Science and Applications course is a multidisciplinary course encompassing research in Solar Physics, Terrestrial Solar Relations, Astronomy, Particle Physics and others.
Workload: 48 h Credits 4 [] Required [X] Optional [] Eleffective
Description: Discussion about the solar wind and the waves in space plasma. Fluid description model of the solar wind. Kinetic models of the solar wind. Existing bodies in the wind: charged dust grains.
Program content:
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 "
Bibliography: -Bittencourt, J.A. Fundamentals of Plasma Physics. Third Edition. Editora Springer, 2004.
-Treumann, R. A. Baumjohann, W., Advanced Space Plasma Physics. World Scientific Publishing Comp., 1997.
-Parks, G.K. Physics of space plasmas – An Introduction. Second Edition. Editora ABP,1995.
-Narayanan, A.S. An Introduction to Waves and Oscillations in the Sun.Editora Springer, 2013.
- Priest, E. Magnetohydrodynamics of the Sun. Cambridge University Press, 2014.
- Somov, B. V. Fundamentals of Cosmic Electrodynamics. Kluwer Academic Publishers, 1994.
Schedule



UNIVERSIDADE PRESBITERIANA MACKENZIE

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



Date	Theme