DOCTORAL PROGRAM IN GEOMATICS ENGINEERING

TRAINING ACTIVITIES		CHARACTER	TRANSVERSAL COMPETENCIES	MINIMUM HOURS	MAXIMUM HOURS	EQUIVALENCE HOURS	Full Time Recommendation	Recommendation Part-time
Cross-cutting training courses		Required	Research work roundup, Documentation, Communication Techniques, Management of Projects, Languages	60	100		Year 1	Year 1 and 2
Participation Congresses	**International**	Optional	Writing of papers, Exhibition of works, Languages, Results analysis	0	400	* 150h: Oral presentation/ speaker/ with paper (75h if not a speaker) * 75h: Oral presentation/speaker/no paper (37.5h if not a speaker) * 75h: Poster/paper presentation * 50h: Poster presentation/no paper * 20h/attendance	Years 2 and 3	Years 3 to 5
	National					* 100 h/ oral presentation/ speaker/ paper (50h if not speaker) * 50 h/ oral presentation/ speaker/ no paper (25h if not speaker) * 50 h/Presentation Poster/paper presentation * 30 h/Presentation Poster/ without article * 10 h/attendance		
Publications	**Magazines**	Optional	Writing of papers Languages, Results analysis	0	600	* Indexed in quartile 1: 300h * Indexed in quartile 2: 250h * Indexed in quartile 3 or 4: 200h Indexing refers to JCR journals. In the case of non-JCR articles, the academic committee may count up to a maximum of 25 hours per article with a maximum of 100 hours for this type of article.	From year 2	From year 3
	Books				400	* Complete book 100pp: 100h (maximum 200 hours) * Chapter < 100 pages: 50h (maximum 200 hours) These books or book chapters are understood to be in competitive international publishing. (those coming from a congress are not considered in this case) For other publishers, the commission may consider up to 50 hours per book (with a maximum of 200) and 25 hours per chapter (maximum 100 hours)		
Stays Research Centers		Optional	Languages, Immersion in the scientific-labor fabric	0	300	50h/month of stay	Years 2 and 3	Years 4 to 5
Creation Patents, etc.		Optional	Management, Planning, Teamwork	0	400	* National Patent Applied for: 150 h * International Patent Application: 200 h * Patent National License: 250 h * Patent International License: 300 h	Since Year 1	Since Year 1
Biannual Thesis Progress Presentations		Required	Writing and Exposition of Language Papers, Analysis of Results	1 share	200	Equal to a national congress	Years 2 and 3	Years 3 and 5

THE HOURS WILL BE COUNTED ACCORDING TO THIS TABLE FOR ALL CONTRIBUTIONS WITH 5 OR LESS AUTHORS, FROM 5 AUTHORS ONWARDS THE NUMBER OF HOURS WILL BE REDUCED ACCORDING TO THE FORMULA:

HOURS*(5/AUTHORS)

Example of allocation of hours to doctoral students participating in an international congress (example extendable to a national congress or a congress without article)

Oral contribution in an international congress with article in the congress proceedings (150 h according to the table of hours allocation). 7 authors, two of them students of the PhD program. One of them makes the presentation. The thesis director assigns 80% of the hours to the student who makes the presentation and 20% to the other (according to template).

Assignment of hours:

- Half of the hours will be assigned to the student giving the oral presentation (and only to him/her) without any reduction. The presentation of a poster does not imply a presentation. Therefore, 75 h for the presentation at the congress.
- In addition, 80% of the other 75 hours, i.e. 60 h, must be considered. But as there are 7 authors, a reduction factor is applied from 5 authors onwards, leaving 42.9 h (60*5/7). ○ The total number of hours of the doctoral student who presents will be 75 h + 42.9 h = 117.9 h.
- For the student who has not made the presentation: Only 20% of the remaining 75 h, i.e. 15 h, should be considered. Now the reduction factor is applied from 5 authors, reducing to 10.7 h (15*5/7).
    - The total number of hours for this non-exhibiting student is 10.7 hours.