INDIVIDUAL TRAINING PLAN

Requirements for the Individual Training Plan	The Space Sciences, Technologies and Measurements (STMS) PhD Course lasts three years. For obtaining the title, it is necessary to reach at least 180 credits in total (ECTS standard: 1 credit is equivalent to 25 hours of activity; credits obtained for educational activities correspond to CFUs), 60 each year. These credits are divided as follows: - 30 credits for educational activities (lectures, seminars, study hours, participation to schools, courses and conferences, tutoring activity, supplementary teaching activity, presentation of the research activity, …) - 150 credits for research activity and thesis writing PhD students of STMS Course have to get an interdisciplinary education about the Course topics. To ensure such interdisciplinarity, the STMS PhD Course activates every year specific courses: the course attendance is strongly suggested, but not mandatory. PhD students can indeed obtain an interdisciplinary education also choosing a personal training plan different from the one proposed by the Course, in agreement with their supervisor and with the approval of the Course Board.
Objectives of the Individual Training Plan	Educational goals of the STMS PhD Course are the deepening and completion of the scientific knowledge in the fields related to the Course topics, providing to the PhD students a large vision of the related thematics. PhD students have to obtain a wide and interdisciplinary knowledge, applying specific learning methods and techniques in order to operate in the field. The educational process will provide the PhD students with specific skills, both for a possible career at University and/or in a research institute, and for getting a relevant position in the industrial and social environments. Moreover, the potential capacities of PhD students will be stimulated, in order to spread their knowledge and know-how throughout the territory, to stimulate the growth of high-tech companies and the competitiveness in an international context. For this purpose, PhD students will be encouraged to get some “soft skills” about communication, patenting, proposing research projects, writing scientific papers, bibliographical research, and other topics, attending specific courses offered either by the PhD course or by the University. Finally, scientific training will be completed by developing the PhD research project.
Training Plan	For obtaining the 30 credits foreseen for educational activities, PhD students can attend the courses activated by the STMS PhD Course. It is also possible to attend other modules/courses provided by other PhD courses, or activated by master and degree Courses; in the latter case, credits will be assigned under a case-by-case evaluation. PhD students should also attend seminars yearly activated by the STMS PhD Course, dealing with specific research topics carried out either by Course board members or by international experts.

1) Definition of course	A course is a frontal teaching unit of at least 10 hour at the end of which a learning test is foreseen. Passing the final test allows to obtain credits equivalent to the attendance and study hours; in case the test is not foreseen or not passed, credits for the attendance only will be acquired. At the end of the course, the PhD students have to fill in a form of evaluation of the educational activity. The language of the courses activated by the STMS PhD Course is English.
2) Definition of seminar	A seminar is a short presentation (typically 1 hour), at the end of which it is not foreseen a learning test. Seminar are held by qualified experienced researchers on topics of high technical-scientific content and advanced research (about either scientific topics or about "soft skills"). The STMS PhD Course also provides "specialistic" seminars: they consist of 2-hour presentations about topics of advanced specific research. After a couple of weeks during which the PhD students deepen the described topic, speaker and PhD students meet again to further discuss about the topic, in an interactive and proactive way. These specialistic seminars allow to obtain credits that include also study hours.
Training Plan activities	
a) Compulsory course	There are no mandatory courses. Anyway, transversal educational courses (typical duration: 20 hours) are yearly activated by the STMS PhD Course, and PhD students are advised to attend them. The *syllabi* of the courses are available on the website of the STMS PhD Course.
b) Sectorial/specific course	The Course activates specialistic seminars (see the definition above), specific for each research field, yearly defined depending on the teachers' availability and on the number of the PhD students. These seminars are not mandatory, but their attendance is strongly suggested. PhD students can attend courses activated by other PhD courses, if useful for their specific training.
c) *Soft skills* courses	Every year the PhD Course activates a module that introduces PhD students on how to write a scientific paper or a research proposal. PhD students are encouraged to attend the "soft skills" courses activated by the University.
d) Seminars	PhD students are strongly encouraged to attend seminars in order to complete the mandatory educational activities.
e) Group activities	Group activities are not foreseen, except those related to the participation to research calls, that can be recognized for training purposes.
f) Schools	PhD students are strongly encouraged to attend Schools to complement their educational activities.
g) Other training activities	PhD students can attend other educational activities external to the course, defined on a case-by-case basis. In this case, credits can be recognized if the activities are considered coherent with

	the Course topics or, in general, with the research activity carried out by the PhD student. Tutoring and supplementary teaching activities carried out by PhD students are recognized as training activities.
h) Participation to conferences	PhD students are strongly encouraged to attend conferences to complement their educational activities.
i) Other	