

Allegato 1 - Elenco degli insegnamenti Avviso di selezione 965/2015

Master	Cod. Ins.	Insegnamento	Numero massimo di incarichi	Numero di ore	Argomento delle lezioni/Oggetto dell'incarico	Periodo
Master Universitario di II livello in Space exploration and development systems-Torino	02PXTGU	Fundamentals of space sciences and techniques	2	10	Systems Tool Kit (STK). Specialized orbits. Ground tracks. Transfer trajectories. Mars trajectory	16/11/2015- 31/03/2016
				6	EDLS (Entry Descent and Landing Systems) introduction and design solutions. EDLS missions	16/11/2015- 31/03/2016
			1	20	Mission Analysis	16/11/2015- 31/03/2016
			2	10	Space and Planetary Environment	16/11/2015- 31/03/2016
				10		16/11/2015- 31/03/2016
			02PXXGU	Human space systems I	3	4
	5	16/11/2015- 31/03/2016				
	5	16/11/2015- 31/03/2016				
	02PXYGU	Human space systems II	1	14	Space structures and materials	16/11/2015- 31/03/2016
			2	12	Environmental Control and Life Support	16/11/2015- 31/03/2016
				16		16/11/2015- 31/03/2016
			1	24	Electrical Systems and EMC	16/11/2015- 31/03/2016
	02PXZGU	Space telecommunications and avionics	1	10	Engineering applications. Different examples of flight strategies. Sensors and error modelling. External disturbances model Tapered maneuver approach: linear and nonlinear case (Hill equations and attitude dynamics, simplified model of sensors and external disturbances, application of detailed sensor model to proximity flight).	16/11/2015- 31/03/2016
	01PXVGU	Space exploration systems I	1	24	Locomotion systems and design of planetary rovers	16/11/2015- 31/03/2016
	02PXWGU	Space exploration systems II	1	10	Space System Engineering I: Functional Analysis and Concept of Operations. Analysis applied to a space exploration scenario to transfer satellite platforms from Leo to GEO	16/11/2015- 31/03/2016
			2	15	Space System Engineering II: Mission Definition, System Concept Definition, Expl. Sys. Architecture, Functional Architecture, Human Exploration Mission, Physical Architecture, Concurrent Design Processes, Budgets, Specifications & Verifications, Integrated Design Environment, Launch Systems	16/11/2015- 31/03/2016
				15		16/11/2015- 31/03/2016
			2	10 (ore di tutoraggio)	Design of Space Exploration Mission	16/11/2015-16/09/2016
				10 (ore di tutoraggio)		16/11/2015-16/09/2016
			02PXUGU	Space management and utilization	1	4