CURRICULUM: MOBILITY
First Year Study Plan (63 ECTS)

Year	Semester I			Semester II		
	SSD	**Courses**	**ECTS**	**SSD**	**Courses**	**ECTS**
I	IIND-03/A	B031730 Circular Design policies, regulations and practices	6	IIND-05/A IIND-08/A CEAR-02/A IEGE-01/A	*alternative among:* - B031740 Sustainable plant and product lifecycle management - B031741 Power electronics for sustainability applications - B031743 Sustainable water and waste management - B031742 Business Economics	6
	IIND-03/A and IIND-06/B	B031736 Life Cycle Sustainability Assessment (joint course of "Life Cycle Sustainability Assessment for circular design of industrial products" and "Sustainable Energy")				12
	IIND-06/B	B031732 Systems and solutions for energy transition	9	IIND-02/A	B031734 Digital Twins of Mechatronic Systems	6
	STAT-01/A	B031733 Statistical methods for engineering	6		B032670 Project Work on Transversal Skills & Teamwork	6
	IIND-03/B	B031753 Innovation and Development of Sustainable Products	6			
	Free-choice course					6

Second Year Study Plan (57 ECTS)

Year	Semester I			Semester II		
	SSD	Courses	ECTS	SSD	Courses	ECTS
II	IIND-03/A	*alternative between:* - B031746 Design for end-of-life - B031747 Finite Element Design and Lightweighting	6			
	IIND-03/A	*alternative between:* - B031778 Design of electric vehicles - B031780 Urban rail transport	6			
	1 course from Table C		6			
	1 Project Work from Table D		9			
	Free-choice course					6
	Traineeship					12
	Thesis					12

TABLE C		
SSD	Courses	ECTS
CEAR-03/B	B031782 Sustainable mobility planning	6
CEAR-03/B	B031784 Automated road vehicles and transport systems	6
IIND-03/A – ING/07	B031786 Multidisciplinary vehicle testing (joint course of "Methods and tools for automotive testing" and "Electrical measurements")	6
IIET-01/A	B031766 Smart grid integration and sustainable mobility	6

TABLE D		
SSD	Courses	ECTS
IIND-03/A – IIND-08/A	B031792 Project Work on Electric Vehicles (joint course of "Module on Urban Vehicles" and "Complements of Power Electronics")	9
IIND-03/A – CEAR-03/B	B031795 Project Work on Mobility and Automated Vehicles (joint course of "Module on Urban Vehicles" and "Complements of Transportation Systems")	9

Suggested free-choice courses to strengthen knowledge and skills of specific roles

SSD	Courses	ECTS	Role
IIND-06/A	B031757 Hybrid propulsion systems	6	R3
IIND-03/A	B031746 Design for end-of-life	6	R3
ING-INF/05	B028463 Big data architectures	6	R3