

## CURRICULUM: DESIGN

### 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	<i>alternative among:</i> - 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	<i>alternative between:</i> - B031734 Digital Twins of Mechatronic Systems - B031735 Multibody systems	6
	STAT-01/A	B031733 Statistical methods for engineering	6		B032670 Project Work on Transversal Skills & Teamwork	6
	IIND-03/B	B031739 Design for Additive Manufacturing	6			
	Free-choice course					6

### Second Year Study Plan (57 ECTS)

Year	Semester I			Semester II		
	SSD	Courses	ECTS	SSD	Courses	ECTS
II	IIND-02/A	B031745 Robotics and Intelligent Machines	6			
	IIND-03/A	<i>alternative between:</i> - B031746 Design for end-of-life - B031747 Finite Element Design and Lightweighting	6			
	ING-IND/16	B031748 Efficient and Sustainable Manufacturing Technologies	6			
	IIND-03/B and IIND-03/A	B031749 Project Work on Re-engineering for optimization of product performance (i.i.)	9			
	Free-choice course					6
	Traineeship					12
	Thesis					12

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

SSD	Courses	ECTS	Role
IIND-05/A	B031740 Sustainable plant and product lifecycle management	6	R4
ECON-02/A	B032669 Energy and environmental economics	6	R4

CURRICULUM: ENERGY TECHNOLOGIES

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	<i>alternative among:</i> - 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