

**Piano degli studi Laurea Magistrale in Ingegneria Meccanica
(percorso Smart Technology Engineering) - aa 2019/20 (CL LM 33)**

insegnamenti 1° anno:

Nr.	Sem.	SSD	Insegnamenti	CFU	codice corso	docente
1	1	ING-IND/09	Sustainable energy	9	39164-ENG	Silvia Ravelli
2	2	ING-IND/15	Virtual and physical prototyping	6	39165-ENG 39166-ENG	Daniele Regazzoni
3	2	ING-IND/13	Mechatronic systems design 3 CFU Mechatronic systems design 3 CFU Functional design of mechatronic systems (mutuato da LM Meccanica)	6		Paolo Righettini
4	1	ING-IND/10	Thermal physics for advanced technology	6	39167-ENG	Roberto Strada
5	1	ING-INF/01	Smart sensors and electronic systems 2 CFU smart sensors 6 CFU Biomedical sensors (mutuato da LM ITS)	8	39168-ENG	Simona Tonini
6	1	ING-INF/05	Embedded and real-time systems (mutuato da LT Informatica)	6	21038-ENG	Gianluca Traversi
7	2	ING-INF/04	Data science and automation	6	39170-ENG	Valerio Re
8	2	ING-IND/22	Materials for advanced engineering applications	6	39171-ENG	da definire
Totale CFU				53		
12a			6 CFU A SCELTA TRA:			
		ING-INF/05	Robotica	6	39068	Daide Brugali
		ING-IND/14	Progettazione FEM		39056	Sergio Baragetti
		ING-IND/06	Computational fluid dynamics		39070-ENG	Francesco Bassi
		ICAR/08	Computational mechanics of solids and structures		60039-ENG	Rosalba Ferrari
e altri insegnamenti a scelta previsti nella Laurea Magistrale in Ingegneria Meccanica						

gli insegnamenti del 2° anno verranno attivati nell'aa 20-21

2 LABORATORI A SCELTA TRA:

LABORATORIO SMART BUILDINGS				CFU	codice	
9	2	ICAR/08	C.I Structural monitoring, safety and risk analysis	3	39172-ENG	
	2	ICAR/09		6		
10	2	ING-IND/09	Smart energy buildings and building	6	39173-ENG	
11	2	ING-IND/33	Automation	6	39174-ENG	
				21		
LABORATORIO SMART MANUFACTURING AND PROCESSING						
9	2	ING-IND/13	Robotics	6	39175-ENG	
10	2	ING-IND/17	Industrial manufacturing	6	39176-ENG	
11	2	ING-IND/16	C.I advanced production systems and advanced materials	6	39177-ENG	
	2	ING-IND/22		3		
				21		
LABORATORIO SMART THINGS AND HUMANS						
9	2	ING-IND/15	Virtual humans	6	39178-ENG	
10	2	ING-IND/10	Microfluidic devices	6	39179-ENG	
11	2	ING-INF/01	C.I. Wearable devices + embedded systems	6	39180-ENG	
	2	ING-INF/05		3		
				21		
LABORATORIO SMART MOBILITY AND DRIVING						
9	2	ING-IND/08	Propulsion	6	39181-ENG	
10	2	ING-IND/06	Vehicle aerodynamics	6	39182-ENG	
11	2	ING-IND/13	Vehicle dynamic and safety	6	39183-ENG	
	2	ING-IND/32	Electric vehicles	3		
				21		
SCELTA				6		
		Abilità informatiche		1		
		Prova finale		12		