"Master Degree in Advanced Automotive Engineering a.y. 2026/2027" curriculum Advanced Motorcycle Engineering

	I semestre		II semestre	
	Insegnamento	CFU	Insegnamento	CFU
I anno	Electronic Systems	6	Automatic Contrlos	6
	Materials, Manufacturing and Sustainability	12	Electric Drives	6
	Mechanical Transmissions and Vibrations	6	Internal Combustion Engines/Powertrains Design and Manufacturing	12
	Vehicle Conceptual Design	6		
II anno	Chassis and Body Design and Manufacturing/Vehicle Virtual Design	12		
	Modeling and Control of Internal Combustion Engines and Hybrid Propulsion Systems	6		
	Motorcycle Vehicle Dynamics	6		
	Powertrain Testing, Calibration and Homologation	6		

Attività a scelta (CFU totali)	12
Tirocinio curriculare	12
Prova Finale/Tesi	12

"Master Degree in Advanced Automotive Engineering a.y. 2026/2027" curriculum Advanced Powertrain (BO)

	I semestre		II semestre	
	Insegnamento	CFU	Insegnamento	CFU
I anno	Electronic Systems	6	Automatic Contrlos	6
	Materials, Manufacturing and Sustainability	12	Electric Drives/Electric Propulsion Systems	12
	Mechanical Transmissions and Vibrations	6	Internal Combustion Engines/Powertrains Design and Manufacturing	12
	Vehicle Conceptual Design	6		
II anno	Electrochemical Energy Storage and Conversion	6		
	Modeling and Control of Internal Combustion Engines and Hybrid Propulsion Systems/Advanced Propulsion Systems	6		
	Powertrain Testing, Calibration and Homologation	12		

Attività a scelta (CFU totali)	12
Tirocinio curriculare	12
Prova Finale/Tesi	12

"Master Degree in Advanced Automotive Engineering a.y. 2026/2027" curriculum Advanced Powertrain (MO)

	I semestre		II semestre	
	Insegnamento	CFU	Insegnamento	CFU
I anno	Electronic Systems	6	Automotive Computer Aided Design	6
	Materials, Manufacturing and Sustainability	12	Electric Drives/Electric Propulsion Systems	12
	Mechanical Transmissions and Vibrations	6	Internal Combustion Engines/Engine Components Design and Manufacturing	12
	Vehicle Conceptual Design	6		
II anno	Automatic controls	6		
	Design and modelling of high-performance propulsion systems	12		
	Electromechanical Energy Storage and Conversion	6		

Attività a scelta (CFU totali)	12
Tirocinio curriculare	12
Prova Finale/Tesi	12

"Master Degree in Advanced Automotive Engineering a.y. 2026/2027" curriculum Advanced Sportscar Manufacturing

	I semestre		II semestre	
	Insegnamento	CFU	Insegnamento	CFU
I anno	Electronic Systems	6	Automatic Contrlos	6
	Materials, Manufacturing and Sustainability	12	Electric Drives	6
	Mechanical Transmissions and Vibrations	6	Internal Combustion Engines/Powertrains Design and Manufacturing	12
	Vehicle Conceptual Design	6		
II anno	Big Data Analytics for Automotive Manufacturing Applications	6		
	Industrial Plants Design	6		
	Industrial Robotics	6		
	Operations and Supply Chain Design and Management/Automotive Manufacturing and Assembly Systems	12		

Attività a scelta (CFU totali)	12
Tirocinio curriculare	12
Prova Finale/Tesi	12

"Master Degree in Advanced Automotive Engineering a.y. 2026/2027" curriculum High Performance Car Design

	I semestre		II semestre	
	Insegnamento	CFU	Insegnamento	CFU
I anno	Electronic Systems	6	Aerodynamics	9
	Materials, Manufacturing and Sustainability	12	Automotive Computer Aided Design	6
	Mechanical Transmissions and Vibrations	6	FEM Fundamentals and Chassis Design	9
	Vehicle Conceptual Design	6	Vehicle Dynamics	9
II anno	Automatic Controls	6		
	Automotive Fluid Power Systems	9		
	Vehicle NVH Testing	6		

Attività a scelta (CFU totali)	12
Tirocinio curriculare	12
Prova Finale/Tesi	12

"Master Degree in Advanced Automotive Engineering a.y. 2026/2027" curriculum Off Highway Vehicle Engineering

	I semestre		II semestre	
	Insegnamento	CFU	Insegnamento	CFU
I anno	Electronic Systems	6	Electric Drives/Electric Propulsion Systems	12
	Materials, Manufacturing and Sustainability	12	Fluid Power Actuation	6
	Mechanical Transmissions and Vibrations	6	Power Transmission and Terramechanics for Off-Highway Vehicles	12
	Vehicle Conceptual Design	6		
II anno	Computer Aided Design and Product Lifecycle Management	6		
	Control and Testing of Off-Highway Powertrains	6		
	Off-Highway Vehicle Dynamics	6		
	Precision Farming Machinery	6		

Attività a scelta (CFU totali)	12
Tirocinio curriculare	12
Prova Finale/Tesi	12

"Master Degree in Advanced Automotive Engineering a.y. 2026/2027" curriculum Racing Car Design

	I semestre		II semestre	
	Insegnamento	CFU	Insegnamento	CFU
I anno	Electronic Systems	6	Aerodynamics	9
	Materials, Manufacturing and Sustainability	12	Automotive Computer Aided Design	6
	Mechanical Transmissions and Vibrations	6	FEM Fundamentals and Chassis Design	9
	Vehicle Conceptual Design	6	Vehicle Dynamics	9
II anno	Chassis and Body Design	9		
	Design of Racing Car Composite Structures	6		
	High Performance and Racing Cars Aerodynamics	6		

Attività a scelta (CFU totali)	12
Tirocinio curriculare	12
Prova Finale/Tesi	12