UNIMORE
UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA

Dipartimento di Ingegneria "Enzo Ferrari"

Sede
Via Pietro Vivarelli, 10 · 41125 - Modena, Italia
T +39 059 2056177 · F +39 059 2056180

www.unimore.it
www.ingmo.unimore.it

\Modena, 2025, October 09

To the Chair
Department of Engineering "Enzo Ferrari"
Prof. Francesco Leali

SUBJECT: Graduation Committee of the Master's Degree Programs in ADVANCED AUTOMOTIVE ENGINEERING

The composition of the Graduation Committee of the Master's Degree Programs in ADVANCED AUTOMOTIVE ENGINEERING convened on the 16th of October, at 8:45 at the Engineering Department Enzo Ferrari – DIEF, room **P0.4**:

Prof. Giovanni Franceschini	**Chair**
Prof. Vittorio Ravaglioli	**Vice Chair**
Prof. Enrico Bertocchi	**Member**
Prof. Alessandro D'Adamo	**Member**
Prof. Saverio Giulio Barbieri	**Secretary**
Prof. Fabrizio Moroni	Substitute
Prof. Davide Barater	Substitute
Prof. Stefano Nuzzo	Substitute
Prof.ssa Elena Bassoli	Substitute
Prof. Valerio Mangeruga	Substitute

The chair will contact graduating students with the instructions for accessing the room and any eventual remote connection and online streaming.
Maximum punctuality is recommended. Members of the Committee unable to attend must contact a substitute for replacement and communicate the substitution in time.

The following students and their guests will enter at 8:15 a.m. from entrance no. 5 (Via Gottardi no. 100). Discussions begin at 8:45 a.m. in room P0.4.

LM ADVANCED AUTOMOTIVE ENGINEERING				
	Family name	**Name**	**Advisor**	**Title**
1	BETTIATI	MARCO	FRANCESCHINI GIOVANNI	Operation control strategy optimization based on power loss minimization in multiple topology 4 Wheel-Drive Electric Vehicles
2	BRUNI	LORENZO	RAVAGLIOLI VITTORIO	Development and Validation of LMGT3 Vehicle Simulation Models Using Canopy: Application to Lamborghini Huracán Evo2 and Mercedes-AMG GT3

3	COLAPICCHIONI	ANDREA	BERTOCCHI ENRICO	Loads Prediction On Suspensions' Systems During The Conceptual Phase Through Simulink Modelling
4	FILIPPI	LORENZO	MORONI FABRIZIO	Design of a Wrist Protection System for Racing Drivers in Crash Scenarios
5	KOLA	ANUDEEP	CROCCOLO DARIO	Quality Analysis and Improvement of Protective Body Covers used in Premium Vehicle Logistics
6	LAPIOLI	RICCARDO	D'ADAMO ALESSANDRO	State of the art and performance limits of high-performance hydrogen-powered engines
7	MARINO	MARIANGELA	RAVAGLIOLI VITTORIO	Modeling and Control Calibration of Cooling Strategies in Formula 1 Power Units: A Zero-Dimensional Approach
8	PALUMBO	MATTEO	FONTANESI STEFANO	Fuel Injector Nozzle Hole Geometry Impact on Spray Morphology and Emission Performance in a Heavy Duty DI Diesel Engine – CFD compared to engine test bed data
9	PEDACE	BRYAN ANGELO	MORONI FABRIZIO	Linear vs. Nonlinear Bolt FE Modelling: a Methodological Approach for Improved Simulation Reliability in Automotive Design
10	RECH	STEFANO	GIACOPINI MATTEO	Machine Learning Techniques for Performance Analysis in Formula 1
11	SCAIOLA	STEFANO	RAVAGLIOLI VITTORIO	Numerical Optimization of 2026 Formula 1 Hybrid Power Unit Models for Competitor Analysis
12	TOMASELLI	MICHELE	MORONI FABRIZIO	Flexible Body Generation for Multi-Body Vehicle Dynamics Simulation
13	YAVAGAL	ADITYA	BARBIERI SAVERIO GIULIO	Simulation-Based Evaluation of a Suzuki GSX-R750 Engine Piston for Formula Student Applications Using CMM-Derived Geometry

The proclamation of graduates will be around 13:00.

Chair Master's Degree Programme in
Advanced Automotive Engineering
Prof. Matteo Giacopini