Lista temelor pentru specializarea: **Design and Manufacturing in Automotive Engineering**

Anul academic 2024 – 2025

Functie	Nume si prenume	Tema	Cod
Prof. dr. ing.	Mihnea MARIN	Biomechanics of manual handling in automotive plants	DMA014
Conf. dr. ing.	Cristian Petre COPILUȘI	FEM of a pyston from an Otto engine with 4 strokes	DMA001
		Finite Element Analysis of a Connecting Rod from an Internal Combustion Engine	DMA018
	Dragoş POPA	Simulation of human behavior during a car crash	DMA002
		Virtual and comparative analysis of crash simulation for different automotive systems	DMA003
		The use of dynamic analysis techniques for different systems and components in the automotive field	DMA004
		The use of computational fluid dynamics methods in automotive systems	DMA005
		Impact of Road Structure on Automotive Accidents	DMA017
	Dragos TUTUNEA	Use of ammonia in internal combustion engines	DMA006
		Experimental investigations on the performance and emission characteristics of dual-fuel engines	DMA007
		Investigations regarding the combustion chamber geometry of internal combustion engines	DMA008
	Gabriel Cătălin MARINESCU	Diagnostic approaches for fuel injection system components: maintenance strategies and failure prevention	DMA009
		Fault analysis and calibration methods for advanced driver assistance systems (ADAS)	DMA010
		Investigation of steering system deterioration: causes of wear and mechanical failures	DMA011
		Evaluating vehicle diagnostic techniques through OBD scanning: data insights and system performance	DMA012
		Diagnosis of automatic transmissions by studying the condition of mechanical components	DMA015
	Mirela CHERCIU	The Automotive Core Quality Tools. Case study	DMA013
	Sorin DUMITRU	Quality Tools Applied in the Automotive Industry: theory, procedures and case studies	DMA016