

COURSE STRUCTURE

2025-11049 Theory of Machine and Mechanisms (AZ) Master

1						2					
No	Course code	Title	Th	Pr	Ects	No	Course code	Title	Th	Pr	Ects
1	MEX 619	Modern problems of mechanical engineering	2	0+0	4	1	PSi 505	Psychology	2	0+0	2
2	MEX 509	Advanced theory of machine and mechanisms-1	3	0+0	6	2	MEX 506	Advanced materials	3	0+0	6
3	MEX 515	Advanced methods of machine design	3	0+0	6	3	MEX 514	Design Principles	3	0+0	6
4	ENG 501	Academic English	0	3+0	6	4	PDQ 520	Pedagogy for Higher Education	2	0+0	4
5	MEX 511	History and methodology of mechanical engineering	2	0+0	2	5	MEX 520	Advanced theory of machine and mechanisms-2	3	0+0	6
6	XXX XXX	[AE] Area elective course II	3	0+0	6	6	XXX XXX	[AE] Area elective course III	3	0+0	6
<i>Subtotal: 30</i>						<i>Subtotal: 30</i>					

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№	Course code	Title	Th	Pr	Ects
1	MEX 613	Advanced manufacturing processes	3	0+0	7
2	MEX 611	Modelling and simulation in technology	3	0+0	7
3	XXX XXX	[NAE] Non-area elective course I	2	0+0	2
4	XXX XXX	[AE] Area elective course IV	3	0+0	7
5	XXX XXX	[AE] Area elective course V	3	0+0	7

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	MEX 670	Pedagogical Study	0	0+0	6
2	MEX 680	Research Study	0	0+0	6
3	MEX 690	Master Thesis	0	0+0	18

Subtotal: 30

Total ECTS credits: **120**

AE - Area Elective Courses

№	Course code	Title	Th	Pr	Ects
1	MEX 519	Research Methods	3	0+0	6
2	MEX 609	Machine Dynamics	3	0+0	7
3	MEX 625	Fundamentals of Robotics	3	0+0	7
4	MEX 513	Lifting machines	3	0+0	6
5	MEX 516	Mechanical vibration	3	0+0	6
6	MEX 601	Machine theory- 3	3	0+0	7
7	MEX 501	Work ethic	3	0+0	6
8	SM 613	Mathematical analysis for mechanical engineers	3	0+0	7

NAE - Non-Area Elective Courses

No	Course code	Title	Th	Pr	Ects	
1	IQT 537	Managerial Economics	2	0+0	2	
2	FEL 601	Philosophy	2	0+0	2	