Course Catalogue Engineering and ICT

EXCHANGE PROGRAMME Applied Mechanics 2024-2025

> University of Applied Sciences Windesheim

VOE Code: EDPAM1.18 ECTS credits: 6 Level: Bachelor's degree (full-time Course Title Project Applied Mechanics Type Compulsory Earning Learning Compulsory Computences Earning The project starts with an assignment of a company. The goal of the project is to provide a constructive solution for the analysed problems. Course content • Project assignment • Analyse and research a construction problem and providing a solution Planned Group assignment • Analyse and research a construction problem and providing a solution Planned Group assignment • Analyse and research a construction problem and providing a solution Planned Group assignment • Analyse and research a construction problem and providing a solution Planned Group assignment • Analyse and research a construction problem and providing a solution Planned eaching • Any resource • Any resource reading and • Any resource • Any resource • Bachelor's degree in Mechanical Engineering) and English-language skills at B2 level. In orde to be able to complete some modules, you will also need mathematics and physics at high school level. Level Advanced Grade Criteria <th>Course sum</th> <th>mary</th> <th></th> <th></th> <th></th>	Course sum	mary				
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Learning competences The project starts with an assignment of a company. The goal of the project is to provide a constructive solution for the analysed problems. Course content • Project assignment • Analyse and research a construction problem and providing a solution Planned learning activities and teaching methods Group assignment • Books or required reading and other learning resources / tools • Books • Any resource Prerequisites and co- requisites • You are required to have two years of Bachelor's study experience in a relevant field (e.g. Bachelor's degree in Mechanical Engineering) and English-language skills at B2 level. In orde to be able to complete some modules, you will also need mathematics and physics at high school level. Level Advanced Grade Up to 10, 1 dec. Assessment methods and criteria Type of assessment P1: Project Applied Mechanics Grade Weighting Criteria Weighting	Course Title	Project Applied Mechanics				
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Language of English	criteria	P1: Project Applied Mechan	ics		Higher or equal to 5.5	
	Language of	, , , , , , , , , , , , , , , , , , , ,		•		
Instruction	Instruction	_				
Name of For information about the lecturers you can contact Laurens Bervoets	Name of	For information about the le	cturers you can co	ntact Laurens Be	ervoets	
lecturer						
Mode of delivery Face to face	Mode of delivery	Face to face				

Course summary				
VOE Code: EDPA	AM.1.18 ECTS credits: 2 Level: Bachelor's degree (full-time)			
Course Title	Report Project Applied Mechanics			
Туре	Compulsory			
Learning				
competences				
Learning	The project starts with an assignment of a company. The goal of the project is to provide a			
outcomes	constructive solution for the analysed problems.			
Course content	Project assignment			
	 Analyse and research a construction problem and providing a solution 			
Planned	Group assignment			
learning				
activities and				
teaching				
methods				
Recommended	Books			
or required	Any resource			
reading and				
other learning				

resources / tools			
Prerequisites	You are required to have two years of Bachelor's study experience in a relevant field (e.g.		
and co-	Bachelor's degree in Mechanical Engineerir		
requisites	to be able to complete some modules, you will also need mathematics and physics at high school level.		
Level	Advanced		
Grading scale	1 up to 10, 1 dec.		
Assessment	Type of assessment	Grade	Criteria
methods and		weighting	
criteria	P1 Report Project Applied Mechanics	1	Higher or equal to 5.5
Language of	English		
Instruction			
Name of	For information about the lecturers you can contact Laurens Bervoets		
lecturer			
Mode of delivery	Face to face		

Course sum	mary				
VOE Code: EDA	MCO.19	ECTS credits:	2	Level: Ba	achelor's degree (full-time)
Course Title	Composites				
Туре	Compulsory				
Learning competences	·				
Learning outcomes	 Composites: Introduction to materials, production and applications of composites. Introduction to basic calculation methods for stress and strain in composite materials. 				
Course content		o materials, producti o basic calculation n			
Planned learning activities and teaching methods	Lectures and Worksho	qq			
Recommended or required	R.P.L.Nijssen (2013). <i>Composieten: Basiskennis</i> . Marknesse: VKCN				
reading and other learning resources / tools	 Solidworks Cad Solidworks Simunlation Add-In on laptop 				
Prerequisites and co- requisites	You are required to have two years of Bachelor's study experience in a relevant field (e.g. Bachelor's degree in Mechanical Engineering) and English-language skills at B2 level. In order to be able to complete some modules, you will also need mathematics and physics at high school level.				
Level	Advanced				
Grading scale	1 up to 10, 1 dec.				
Assessment methods and	Type of assessment			Grade weighting	Criteria
criteria Language of Instruction	T1 Composites 1 Higher or equal to 5.5 English 1				
Name of lecturer	For information about the lecturers you can contact Laurens Bervoets				
Mode of delivery	Face to face				

Course sum	mary				
VOE Code: EDAN	, MMV.19	ECTS credits:	4	Level: B	achelor's degree (full-time)
Course Title	Modelling and Validation				
Туре	Compulsory	· · · · · · · · · · · · · · · · · · ·			
Learning					
competences					
Learning	Modelling & Validation:				
outcomes	 Assessing actual Theoretical calcul 				nbined application (1) s and (3) Testing.
Course content	Modelling & Validation:				
	 Assessing actual Theoretical calcul 				nbined application (1) s and (3) Testing.
Planned	Lectures and Workshop				
learning					
activities and					
teaching					
methods					
Recommended	Solidworks Cad				
or required reading and	 Solidworks Simun 	liation Add-in on	laptop		
other learning					
resources /					
tools					
Prerequisites	You are required to have to	wo years of Back	nelor's study	experien	ce in a relevant field (e.g.
and co-	Bachelor's degree in Mechanical Engineering) and English-language skills at B2 level. In order				
requisites		me modules, you	will also nee	ed mathe	matics and physics at high
	school level.				
Level	Advanced				
Grading scale	1 up to 10, 1 dec.				
Assessment	Type of assessment		Grade		Criteria
methods and	D1 Madalling and Malt 1		weigh	ting	
criteria	P1 Modelling and Validation 1 Higher or equal to 5.5				
Language of Instruction	English				
Name of lecturer	For information about the lecturers you can contact Laurens Bervoets				
Mode of delivery	Face to face				

Course sum	Course summary					
VOE Code: EDD	16 ECTS credits: 5 Level: Bachelor's degree (full-time)					
Course Title	Design tools					
Туре	Compulsory					
Learning competences						
Learning outcomes	Getting acquainted with various design tools and delving deeper into two design tools of your choice.					
Course content	 In this practice course , you will get an overview of various design tools. After an introduction, you can choose which design tools you want to further explore. The minimum requirement is two, but you can also choose more. The following tools are included, these are examples, the current overview is mentioned in the study manual every year: KISSSOFT: This is a software tool used for calculating machine components. Especially in the field of gears, this package is leading. 					

Planned learning activities and teaching methods	 CE-marking: Topics include technical-legal aspects, safety, and liability related to building machines and products. Solid Works Motion/PDM: Motion is a comprehensive Multibody package used, among others, in the development of cars and roller coasters. The Product Data Management practical is provided in collaboration with the company VMI. In the practical, you will become acquainted with this important material for mechanical engineers and with recent developments in this field. FMECA: This part lays the foundation for design methods and procedures to determine and improve the reliability of a machine. Topics include probabilistic approach, failure analysis, load capacity of contact surfaces, friction, wear, and lubrication. Non Linear FEM: In this practical, you will learn to deal with large deformations and nonlinear material behavior. You will learn the limits of conventional calculations. Lectures Practical sections and workshops 			
Recommended or required reading and other learning resources / tools	Various tools depending on the chosen design tools			
Prerequisites and co- requisites	You are required to have two years of Bachelor's study experience in a relevant field (e.g. Bachelor's degree in Mechanical Engineering) and English-language skills at B2 level. In order to be able to complete some modules, you will also need mathematics and physics at high school level.			
Level	Advanced			
Grading scale	1 up to 10, 1 dec.			
Assessment methods and	Type of assessment	Grade weighting	Criteria	
criteria	P1 Designtools: Introductions	0	Higher or equal to 5.5	
	P2 Designtool 1	1	Higher or equal to 5.5	
	P3 Designtool 2	1	Higher or equal to 5.5	
Language of Instruction	English			
Name of lecturer	For information about the lecturers you can contact Laurens Bervoets			
Mode of delivery	Face to face			
Mode of delivery	Face to face			

Course sum	mary
VOE Code: EDAT	F1E.24ECTS credits: 5Level: Bachelor's degree (full-time)
Course Title	Drive Technology
Туре	Compulsory
Learning	
competences	
Learning	Basis knowledge about electrical drive systems.
outcomes	 Advanced knowledge about machine components.
Course content	Machine components 3:
	Interference fit
	Couplings
	Bolt connections
	• etc.
	Electrical drive systems:
	Interaction motor and load
	DC-motors

	Steppermotors			
	AC-power			
	3 phase systems			
	 Induction motors 			
Planned	Lecture			
learning	Practical workshop			
activities and				
teaching				
methods				
Recommended	H. Wittel, D. Muhs, J. Vossiek, D. Janna	sch (2013). <i>Roloff / Ma</i>	atek machineonderdelen -	
or required	<i>Theorieboek</i> . Den Haag:			
reading and	Academic Service			
other learning	H. Wittel, D. Muhs, J. Vossiek, D. Janna	sch (2013). <i>Roloff / Ma</i>	atek machineonderdelen -	
resources /	Tabellenboek. Den Haag:			
tools	Academic Service			
	Theodore Wildi (2013) <i>Electrical Mach</i>	ines Drives and Power	Systems Amsterdam Pearson	
	Theodore Wildi (2013). <i>Electrical Machines, Drives and Power Systems</i> . Amsterdam: Pearson Education			
	Energy lab			
	 Pin on disk 			
	Calculator			
Prerequisites	You are required to have two years of Bachelor's study experience in a relevant field (e.g.			
and co-	Bachelor's degree in Mechanical Engineering) and English-language skills at B2 level. In order			
requisites	to be able to complete some modules, you will also need mathematics and physics at high			
	school level.			
Level	Advanced			
Grading scale	1 up to 10, 1 dec.			
Assessment	Type of assessment	Grade	Criteria	
methods and		weighting		
criteria	P1: Lab work	1	Higher or equal to 5.5	
	P2: Machine components 3	1	Higher or equal to 5.5	
1	T1: Electrical drive systems	1	Higher or equal to 5.5	
Language of	English			
Instruction	For information about the last mere	ann anntait Laurair - D	arvaata	
Name of	For information about the lecturers you	can contact Laurens B	ervoets	
lecturer Mode of delivery	Face to face			
Mode of delivery	Face to face			

Course sum	mary				
VOE Code: EDD	(V.23 ECTS credits: 4 Level: Bachelor's degree (full-time)				
Course Title	Dynamics and Vibrations				
Туре	Compulsory				
Learning competences					
Learning	1. The student can analyse and apply (within an end results accuracy of $\pm 5\%$) clearly				
outcomes	 The student can analyse and apply (within an end results accuracy of ±5%) clearly the kinematics of relative motion analysis of rigid-body plane motion using a translating and/or rotating frame of reference. The student can write, analyse and apply correcly the kinetics formula's for the linear and angular momentum of rigid-body plane motion. The student can analyse and apply the correct model of vibration on a given problem (free and/ or forced, damped and/or undamped vibration) to solve different basic problems in Engineering vibration. The student can perform a design for a vibration isolation system correctly and validate the results according to the used theoretical model. 				
Course content	Quarter 9 (W3)				

	1			
	Module 1: Relative Motion Analyses: Rig	id body Planar Kinema	atics	
	Topic(s)	ity Instantoneous Cont	tro of Zoro Valacity	
	 Relative Motion Analysis: Veloci Relative Motion Analysis: Accele 	-	lie of Zero velocity.	
	 Relative Motion Analysis. Acceleration Relative Motion Analysis Using Rotating Axes: Velocity & Acceleration 			
	Alarive Motion Analysis Using	Notating Axes. Velocity		
	Module 2: Linear and Angular Momentu	m		
	Topic(s)			
	Linear and Angular Momentum			
	Principle of Impulse and Momen	ntum		
	Conservation of Momentum			
	Eccentric Impact			
	Module 3: Introduction to Engineering V Topic(s)	ibration		
	Undamped Free and Forced Vib	ration		
	 Damped Free and forced Vibrati 			
	Module 4: Design Applications of Engine	eering Vibration		
	Applications of Engineering Vib			
	Modelling of Constructional Me			
	Designing of Vibration Isolation	Systems		
Planned	Interactive lectures			
learning activities and	Eventual guest lectures in coope	eration with industry		
teaching				
methods				
Recommended	Russell Charles Hibbeler ().			
or required				
reading and	Dynamica			
other learning	. : Pearson Education			
resources /	Singiresu S. RAO ().			
tools	Elective reference book:			
	Mechanical Vibration. : Pearson Educati	on		
	Weekly presentations			
	Problem list			
Droroquiaitaa	Homework You are required to have two years of Ba	obolor'o otudu ovocria	noo in a rolovant field (a a	
Prerequisites and co-	Bachelor's degree in Mechanical Engine			
requisites	to be able to complete some modules, y			
	school level.			
Level	Advanced			
Grading scale	1 up to 10, 1 dec.			
Assessment	Type of assessment	Grade	Criteria	
methods and	T1: Deletive motion and impact	weighting	Lligher or equal to 5.5	
criteria	T1: Relative motion and impact T2: Vibrations	1	Higher or equal to 5.5 Higher or equal to 5.5	
Language of	English			
Instruction				
Name of	For information about the lecturers you	can contact Laurens B	ervoets	
lecturer				
Mode of delivery	Face to face			
/				

Course sum	mary			
VOE Code: EDA	MTE.20 EC	TS credits:	1 Lev	vel: Bachelor's degree (full-time)
Course Title	Technical English for Applied M	lechanics		
Туре	Compulsory			
Learning competences				
Learning outcomes	 The student is able to: Orally summarize a (written or spoken) text related to the minor in (as much as possible) in own words. Write an English report (10-15 pages) of a project related to the minor. 			
Course content	Written skills are practiced durin		ncluding summa	rizing and translating.
Planned learning activities and teaching methods	Explanation and training during	lectures.		
Recommended or required reading and other learning resources / tools	Reader and visuals			
Prerequisites and co- requisites	You are required to have two years of Bachelor's study experience in a relevant field (e.g. Bachelor's degree in Mechanical Engineering) and English-language skills at B2 level. In order to be able to complete some modules, you will also need mathematics and physics at high school level.			
Level	Advanced			
Grading scale	1 up to 10, 1 dec.			
Assessment methods and	Type of assessment		Grade weighting	Criteria
criteria	P1 Technical English for AM		1	Higher or equal to 5.5
	P2 Technical English for AM		1	Higher or equal to 5.5
Language of Instruction	English			
Name of lecturer	For information about the lecturers you can contact Laurens Bervoets			
Mode of delivery	Face to face			
would be used wery				

Course summary				
VOE Code: EDAMPCOM4.19 ECTS credits: 1 Level: Bachelor's degree (full-tim				
Course Title	Professional Communication 4			
Туре	Compulsory			
Learning				
competences				
Learning	Gain knowledge and develop skills in the field of written and oral communication.			
outcomes				
Course content	Students choose two communication themes (out of four) that they want to know more about. Themes relate to oral and written communication.			
Planned learning activities and teaching methods	Practical sections , where material is explained and after which students can apply material in exercises, assignments, etc.			
Recommended or required	Audiovisual aids			

reading and other learning resources / tools				
Prerequisites and co- requisites	You are required to have two years of Bachelor's study experience in a relevant field (e.g. Bachelor's degree in Mechanical Engineering) and English-language skills at B2 level. In order to be able to complete some modules, you will also need mathematics and physics at high school level.			
Level	Advanced			
Grading scale	1 up to 10, 1 dec.			
Assessment methods and	Type of assessment	Grade weighting	Criteria	
criteria	P1 Professional Communication 4	1	Higher or equal to 5.5	
Language of Instruction	English			
Name of lecturer	For information about the lecturers you can contact Laurens Bervoets			
Mode of delivery	Face to face			