Course description

Course abbreviation: Course name:	UJP/AST5 English for Mechanic	cal Engin	eering 5			Page:	1 / 5
Academic Year:	2023/2024	car Englin		Printe	d:	03.06.2024	10:12
Department/Unit /	UJP / AST5			Acade	mic Year	2023/2024	Ļ
Title	English for Mechanie	cal Engin	eering 5	Type of co	ompletion	Pre-Exam	Credit
Accredited/Credits	Yes, 4 Cred.			Type of co	ompletion		
Number of hours	Tutorial 4 [Hours/We	eek]					
Occ/max	Status A Sta	atus B	Status C	Course cred	it prior to	NO	
Summer semester	0 / -	0 / -	0 / -	Counted int	o average	NO	
Winter semester	0 / -	0 / -	36 / -	Min. (B+C) students	15	
Timetable	Yes			Repeated re	gistration	NO	
Language of instruction	English			Semes	ter taught	Winter ser	nester
Optional course	Yes			Internship	duration	0	
Evaluation scale	S N						
No. of hours of on-premise							
Auto acc. of credit	Yes in the case of a p	previous e	evaluation 4 nebo nic.				
Periodicity							
Substituted course	CJP/AST5						
Preclusive courses							
Prerequisite courses							
•	nended courses N/A						
Courses depending	on this Course N/A						

Course objectives:

The course is designed for students of technical universities focusing mainly on Mechanical Engineering with pre-intermediate or intermediate knowledge of English. Students will learn to communicate in technically oriented working environments. The course should equip students with language competencies at the level B1 according to the Common European Framework for Languages.

Requirements on student

Course credit requirement: a student must obtain minimum 75 points for the whole course to pass the subject and receive ECTS credits.

Course requirements consist of

the obligatory part which includes 1) 50% course attendance (12 classes); 2) 4 homework assignments with specified DEADLINES (*Submission takes place online via Google Classroom, access via your Orion account under @gapps.zcu.cz).

and the voluntary part which includes 3) Moodle course - 5 points for each completed block; 4) Final test. Test contains 50 questions and is worth 25 points (1 point for every 2 questions answered correctly)

Attendance requirements: 50% course attendance is obligatory to qualify for course credits Every class attended is worth 1 point, therefore, at least 12 points must be obtained.

Content

Block 1: Classes 1-6

Course introduction. Formal presentation and course requirements. Scope of Mechanical Engineering, Job Roles, Field of work The choice of ME, Steps to becoming a Mechanical Engineer, Required Skills LinkedIn strategy, Tips for Mechanical Engineering Interview What (Not) to say in Job Interview Job Application Emails, Resume Design Future Trends of Mechanical Engineering Grammar and Vocab revision. Comparing and contrasting engine types and their future: Hydrogen, Electric, Internal combustion engines

Block 2: Describing visuals, forces and processes 4-6, Classes 7-12

Describing visuals Grammar and Vocab revision, Picture dictations, group presentations Describing forces, simple mechanisms Grammar and Vocab revision, Describing the way things work Describing processes: Milling and Grinding Grammar and Vocab revision, Describing processes: Welding and Casting

Block 3: Materials, energy sources, forces and machines
7-8, Classes 13-16
Properties of Material, Ferrous Materials, Non-Ferrous Materials, Alloys
Energy sources: Renewable/non-renewable. Current state of each, + and -, problems and potential solutions
Describing Lathe Machines and how they work
Describing Drilling Machines and how they work

Block 4: Units of Measurement 9-10, Classes 17-20

Types of Metrology, Measurement Terminologies Limit & Fit, Linear Measurement Comparative gauges, Angular Measurement Force and Torque, Temperature Measurement Giving presentations

AST5 students can use an e-learning online course, available from moodle.zcu.cz. https://phix.zcu.cz/moodle/course/view.php?id=8951

Fields of study

Guarantors and lecturers

- Guarantors: Olesya Petrenko, Ph.D. (100%)
- Tutorial lecturer: Mgr. Bc. Věra Bublíková (50%), Mgr. Jan Hartman (100%), Olesya Petrenko, Ph.D. (100%)

Literature

• Basic:	Čepičková, J. English for Mechanical Engineers 5.
• Recommended:	Ibbotson, Mark. <i>Cambridge English for engineering</i> . Cambridge : Cambridge University Press, 2008. ISBN 978-0-521-71518-8.
• Recommended:	Murphy, Raymond. <i>English grammar in use : with answers : a self-study reference and practice book for intermediate students of English.</i> 3rd ed. Cambridge : Cambridge University Press, 2004. ISBN 0-521-53289-2.
• Recommended:	Glendinning, E. H., Glendining, N. Oxford English for Electrical and Mechanical Engineering. Oxford, 1994.

Time requirements

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Activities	Time requirements for activity [h]
E-learning [dáno e-learningovým kurzem]	65

Preparation for comprehensive test	(10-40)	32
Contact hours		52
Undergraduate study programme te 40)	erm essay (20-	20
	Total:	169

assessment methods

Test	
Seminar wo	rk
Continuous	assessment
Skills - skills a	chieved by taking this course are verified by the following means:
Test	
Seminar wo	rk
Continuous	assessment
Competences -	- competence achieved by taking this course are verified by the following means:
Test	
Seminar wo	rk
Continuous	assessment
requisite	
Knowledge - s	tudents are expected to possess the following knowledge before the course commences to finish it successfully:
- distinguish	a grammatical structures at the A2/B1 level according to SERR
- name mate	erials
- name macl	hine components
- list simple	safety rules
- choose app	propriate vocabulary for communication in formal and informal situations
Skills - studen	ts are expected to possess the following skills before the course commences to finish it successfully:
- describe a	problem and suggest a simple solution
- write a sim	pple ad and announcement
- lead a basi	c conversation in a restaurant: ordering food, paying
- have a bas	ic conversation in the hotel: booking a room, solving simple problems
- describe ba	asic material properties
- compare d	evices
- describe at	tachments and locations of machine parts

N/A

teaching methods

Knowledge - the following training methods are used to achieve the required knowledge:

Practicum

E-learning

Multimedia supported teaching

Collaborative instruction

Cooperative instruction

Discussion

Self-study of literature

Skills - the following training methods are used to achieve the required skills:

Practicum

E-learning

Multimedia supported teaching

Collaborative instruction

Cooperative instruction

Discussion

Self-study of literature

Competences - the following training methods are used to achieve the required competences:

Practicum

E-learning

Multimedia supported teaching

Collaborative instruction

Cooperative instruction

Discussion

Self-study of literature

learning outcomes

Knowledge - knowledge resulting from the course:

- distinguish grammatical structures at the B1 level according to SERR

- distinguish mathematical expressions and specifications
- list material properties

Skills - skills resulting from the course:

- introduce one's profession and workplace
- write a structured resume and job application
- attend an interview
- make a phone call, leave and take a message
- write a request
- describe a production process
- explain functions
- describe an experiment
- give detailed instructions, including notification of problems
- have a discussion on a work-related topic
- compare the advantages and disadvantages of technical solutions

Competences - competences resulting from the course:

N/A

N/A

Course is included in study programmes:

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Study Programme	Type of	Form of	Branch	Stage	St. plan v	Year	Block	Status	R.year	R.	
Engineering	Bachelor	Full-time	Automotive Industry Specialist]	2020	2023	Doporučené výběrové předměty - CIZÍ JAZYKY	C	3	ZS	
Engineering	Bachelor	Full-time	Programming of NC Machines	1	2020	2023	Doporučené výběrové předměty - CIZÍ JAZYKY	C	3	ZS	
Engineering	Bachelor	Full-time	Quality Control	1	2020	2023	Doporučené výběrové předměty - CIZÍ JAZYKY	С	3	ZS	
Mechanical Engineering	Bachelor	Full-time	Design Engineering of Power Machines and Equipment	1	2020	2023	Elective courses: Foreign Languages	С	3	ZS	
Mechanical Engineering	Bachelor	Full-time	Design Engineering of Machines and Technical Devices]	2020	2023	Elective courses: Foreign Languages	С	3	ZS	
Mechanical Engineering	Bachelor	Combined	Design Engineering of Machines and Technical Devices	1	2020	2023	Elective courses: Foreign Languages	С	3	ZS	
Mechanical Engineering	Bachelor	Combined	Engineering Materials and Manufacturing Technolog		2020	2023	Elective courses: Foreign Languages	С	3	ZS	
Mechanical Engineering	Bachelor	Full-time	Engineering Materials and Technology	1 1	2020	2023	Elective courses: Foreign Languages	С	3	ZS	
Mechanical Engineering	Bachelor	Full-time	Industrial Engineering and Management	1 1	2020	2023	Elective courses: Foreign Languages	С	3	ZS	
Mechanical Engineering	Bachelor	Combined	Mechanical Engineering	1	2020	2023	Elective courses: Foreign Languages	С	3	ZS	
Mechanical Engineering	Bachelor	Full-time	Mechanical Engineering	1	2020	2023	Elective courses: Foreign Languages	С	3	ZS	
Mechanical Engineering	Bachelor	Full-time	Technology of Metal Cutting	1	2020	2023	Elective courses: Foreign Languages	С	3	ZS	