

Z012	Obligatory Semester 2	<b>English for Mathematics and Computer Science Students II</b>	P	S	E	ECTS 3
			0	2	0	

**Course objectives.** Students should acquire fundamental terminology from the fields of mathematics and computer science as well as apply structures typical of LSP (Language for Specific Purposes). They should be taught and trained how to read various pieces of literature from the fields of mathematics and computer science as well as to carry out conversation referring to some basic topics in their fields of study.

**Course prerequisites.** English for Mathematics and Computer Science Students I

**Syllabus.**

1. What is ICT? ICT Vs Informatics Vs Computer Science Vs Information Science. Living in a digital age. What is an electronic computer? E-commerce. Data Security. Troubleshooting. Chat & Netiquette. Health & Safety. Electronic publishing. Future trends in ICT. Applying for a job.
2. Relative clauses and other defining/classifying structures. Word-building, prefixes and suffixes. Future expressions.

**EXPECTED LEARNING OUTCOMES**

No.	LEARNING OUTCOMES
1.	to develop language skills (reading, writing, speaking and listening) necessary for receptive and productive use of language in spoken and written discourse;
2.	to distinguish between, define and understand the basic LSP terminology from the fields of mathematics and computer science, and use it in other contexts;
3.	to read, analyse and present a short written text, describe a figure, read a formula;
4.	to understand oral presentations and dialogues;
5.	to take part in conversations and discussions in relation to the given LSP topic, express one's own opinion;
6.	to translate short texts from English into Croatian independently, using appropriate literature (dictionaries, textbooks, etc.);
7.	to notice, analyse and apply the principles of formation and use of typical structures.

**COUPLING OF THE LEARNING OUTCOMES, TEACHING PROCESS ORGANIZATION AND THE EVALUATION OF THE TEACHING OUTCOMES**

TEACHING PROCESS ORGANIZATION	ECTS	LEARNING OUTCOME **	STUDENT ACTIVITY*	EVALUATION METHOD	SCORE	
					Min	max
Seminar attendance	0.5	1-7	Participation in discussion, homework	Attendance sheets and observing student's participation; checking homework assignments	0	10
Preliminary exam	1	1-7	Preparation of exam	Checking the correctness of answers	35	
Presentations	0.5	1-7	Oral presentation	Evaluation according to stated criteria	10	20
Final exam	1	1-7	Revision of subject matter	Oral exam	5	10
Total	3				50	100

**Teaching methods and student assessment.** This course is organised through seminars which are obligatory for all students. Students are allowed to be excused from class 30% of the total number of seminars. From time to time, students are assigned homework or small project tasks, which affects their final grades, as can be seen in the table above. Students' knowledge is continuously assessed by two preliminary exams. Acceptable results in preliminary exams can replace the written part of the final exam. The oral part takes place at the end of the semester.

**Can the course be taught in English:** Yes

**Basic literature:**

1. I. Ferčec, A Course in Scientific English: Mathematics, Physics, Computer Science, Odjel za matematiku/Elektrotehnički fakultet, Osijek, 2001.
2. R. Murphy, English Grammar in Use, CUP, Cambridge, 1999.

**Recommended literature:**

1. C. Clapham, The Concise Dictionary of Mathematics, OUP, Oxford, 1996.
2. D. Koračin, Čitanje matematičkih formula, Element, Zagreb, 1996.
3. M. Krajnović, Rječnik matematičkih naziva, Matematičko-fizički list, (izvanredni broj), Zagreb, 1999-2000.
4. Oxford Dictionary of Computing (ur. V. Illingworth), OUP, Oxford, 1996.

Z012	Obligatory Semester 2	<b>German for Mathematics and Computer Science Students II</b>	P	S	E	ECTS 3
			0	2	0	

**Course objectives.** Students should acquire fundamental terminology from the fields of mathematics and computer science as well as apply structures typical of LSP (Language for Specific Purposes). They should be taught and trained how to read various pieces of literature from the fields of mathematics and computer science as well as to carry out conversation referring to some basic topics in their fields of study.

**Course prerequisites.** German for Mathematics and Computer Science Students I

**Syllabus.**

1. What is ICT? ICT Vs Informatics Vs Computer Science Vs Information Science. Living in a digital age. What is an electronic computer? E-commerce. Data Security. Troubleshooting. Chat & Netiquette. Health & Safety. Electronic publishing. Future trends in ICT. Applying for a job.
2. Pronominal adverbs. Types of sentences (simple and complex), infinitive constructions

**EXPECTED LEARNING OUTCOMES**

No.	LEARNING OUTCOMES
1.	to develop language skills (reading, writing, speaking and listening) necessary for receptive and productive use of language in spoken and written discourse;
2.	to distinguish between, define and understand the basic LSP terminology from the fields of mathematics and computer science, and use it in other contexts;
3.	to read, analyse and present a short written text, describe a figure, read a formula;
4.	to understand oral presentations and dialogues;
5.	to take part in conversations and discussions in relation to the given LSP topic, express one's own opinion;
6.	to translate short texts from German into Croatian independently, using appropriate literature (dictionaries, textbooks, etc.);
7.	to notice, analyse and apply the principles of formation and use of typical structures.

**COUPLING OF THE LEARNING OUTCOMES, TEACHING PROCESS ORGANIZATION AND THE EVALUATION OF THE TEACHING OUTCOMES**

TEACHING PROCESS ORGANIZATION	ECTS	LEARNING OUTCOME **	STUDENT ACTIVITY*	EVALUATION METHOD	SCORE	
					Min	max
Seminar attendance	0.5	1-7	Participation in discussion, homework	Attendance sheets and observing student's participation; checking homework assignments	0	10
Preliminary exam	1	1-7	Preparation of exam	Checking the correctness of answers	35	
Presentations	0.5	1-7	Oral presentation	Evaluation according to stated criteria	10	20
Final exam	1	1-7	Revision of subject matter	Oral exam	5	10
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**Can the course be taught in English:** No

**Basic literature**

1. Dreyer-Schmitt, Lehr- und Übungsbuch der deutschen Grammatik, Max Hueber Verlag, München, 2000.

**Recommended literature:**

1. J. Ortman, Einführung in die PC-Grundlagen, Tandem Verlag, Herne, 1993.
2. Znanstveni i stručni časopisi iz područja matematike i računarstva