

Darko Kovačević

ENGLISH LANGUAGE FOR ELECTRICAL ENGINEERS

2: ICT

Elektrotehnički fakultet Univerziteta u Istočnom Sarajevu
Akademska misao

English Language for Electrical Engineers 2: ICT

Istočno Sarajevo, 2021.

Autor

Darko Kovačević

Elektrotehnički fakultet Univerziteta u Istočnom Sarajevu

Recenzenti

Prof. dr Maja Žarković Makrej

Filozofski fakultet Univerziteta u Istočnom Sarajevu

Prof. dr Diana Prodanović-Stankić

Filozofski fakultet Univerziteta u Novom Sadu

Izdavač

Elektrotehnički fakultet Univerziteta u Istočnom Sarajevu

Akadska misao, Beograd

Štampa

Štamparija Dis-Company, Pale

Prelom teksta i dizajn korica

Darko Kovačević

Korektura

Gordana Manojlović-Kovačević

Tiraž

300

Godina izdanja

2021.

ISBN: 978-86-7466-906-8

Odlukom Senata Univerziteta u Istočnom Sarajevu broj 01-C-327-XXIII/21 od 28.10.2021. godine odobreno je da se udžbenik *English Language for Electrical Engineering 2: ICT* objavi kao univerzitetsko izdanje.

Table of Contents

PREFACE	12
PREDGOVOR	13
UNIT 1	14
HOW COMPUTERS CHANGED THE WORLD.....	14
How Computers Changed Business.....	14
How Computers Changed Our Lives	14
How Computers Change the Way We Think.....	15
THE EFFECTS OF CYBERBULLYING ON CHILDREN.....	15
Cyberbullying and its Effects on Children	16
Exercises.....	17
1. Answer the following questions.....	17
2. Write the descriptions of the modified nouns from the table.	17
3. Explain/describe the following terms and expressions, on the basis of their use in the text.	18
4. Rearrange the sentence parts to get correct sentences.	18
5. Create the word families for the following terms. Use dictionary if necessary.....	19
MODAL VERBS (1).....	20
Modal verbs and modal phrases (semi-modals).....	20
Negative statements with modal verbs and modal phrases	21
Questions with modal verbs and modal phrases.....	21
Can, could, be able to	21
Ability/Lack of ability.....	21
Present and future	21
Past.....	22
Possibility/impossibility	22
Certainty	22
Ask for permission/give permission.....	22
Suggestion	23
May, might.....	23
Formal permission/formal prohibition.....	23
Polite request.....	23
Possibility/negative possibility.....	23
Suggestion (when there is no better alternative).....	24
Polite suggestion	24
UNIT 2	25
WHAT IS A COMPUTER?	25
Hardware vs. software.....	25

Basic parts of a computer	25
Introduction	25
Computer case	25
Monitor	25
Keyboard	26
Mouse	26
Mouse alternatives	26
Exercises	27
1. Answer the following questions	27
2. Match the terms and their definitions	27
3. Explain/describe the following terms and expressions, on the basis of their use in the text	28
4. Match the verbs and nouns on the basis of their use in the text to get proper collocations	28
5. Connect the modifiers with the nouns, according to the way they have been used in the text	28
MODAL VERBS (2)	30
Shall, should, ought to	30
Offer of assistance or polite suggestion	30
Prediction or expectation that something will happen	30
Giving advice	30
Must, have to, need to, need not (needn't)	30
Necessity, obligation or requirement	30
Present and future	30
Past	31
Certainty	31
Persuasion	31
Prohibition or forbidding	31
Lack of necessity or obligation	31
Will/would	32
Polite request or statement	32
Polite offer	32
Habitual Past Action	32
UNIT 3	33
PERIPHERALS YOU CAN USE WITH YOUR COMPUTER	33
Exercises	34
1. Answer the following questions	34
2. Match the terms and their definitions	34

3. Explain/describe the following terms and expressions, on the basis of their use in the text.	34
4. Match the words on the basis of their use in the text to get proper collocations.....	35
5. Connect the modifiers with the nouns, according to the way they have been used in the text.....	35
6. Complete the text with the given words and expressions.	36
MODAL VERBS (3).....	38
Used to.....	38
Perfect modal verbs.....	38
Could have + past participle.....	39
May/might have + past participle.....	39
Should have + past participle.....	40
Would have + past participle.....	41
Must /might (not)/may (not)/can't/couldn't have + past participle.....	41
Should/ought to/must have + past participle.....	42
UNIT 4	43
INSIDE A COMPUTER.....	43
Motherboard.....	43
CPU/processor.....	43
RAM (random access memory).....	43
Hard drive	43
Power supply unit.....	44
Expansion cards.....	44
Video card	44
Sound card.....	44
Network card.....	44
Bluetooth card (or adapter)	45
Exercises.....	46
1. Answer the following questions.....	46
2. Match the terms and their definitions.....	46
3. Explain/describe the following terms and expressions, on the basis of their use in the text.	47
4. Match the words on the basis of their use in the text to get proper collocations.....	47
5. Connect the modifiers with the nouns, according to the way they have been used in the text.....	48
6. Complete the text with the given words and expressions.	49
CONDITIONAL SENTENCES (TYPE 0 AND 1).....	51

If/unless.....	51
If.....	51
Unless.....	51
Conditional sentences type 0	51
Conditional sentences type 1	52
UNIT 5	53
COMPUTING AND HEALTH	53
Potential Computing-Related Disorders	53
Exercises.....	55
1. Answer the following questions.....	55
2. Write the descriptions of the modified nouns from the table.	55
3. Explain/describe the following terms and expressions, on the basis of their use in the text.	56
4. Rearrange the sentence parts to get correct sentences.	56
5. Complete the text with the given words and expressions.	58
CONDITIONAL SENTENCES (TYPE 2).....	60
Conditional sentences type 2	60
UNIT 6	61
WHAT IS AN OPERATING SYSTEM?	61
The job of an operating system	61
Types of operating systems	61
Microsoft Windows	61
macOS	61
Linux.....	62
Operating systems for mobile devices	62
GUI and WIMP	62
Exercises.....	64
1. Answer the following questions.....	64
2. Connect the modifiers with the nouns, according to the way they have been used in the text.....	64
3. Explain/describe the following terms and expressions, on the basis of their use in the text.	65
4. Match the terms and their definitions.....	65
5. Complete the text with the given words and expressions.	66
CONDITIONAL SENTENCES (TYPE 3).....	68
Conditional sentences type 3	68
UNIT 7	69
THE SOFTWARE DEVELOPMENT CYCLE	69
APPLICATION.....	70

Applications vs. system software	70
Types of applications.....	70
Exercises.....	72
1. Answer the following questions.....	72
2. Answer the following questions.....	72
3. Explain/describe the following terms and expressions, on the basis of their use in the text.	73
4. Write the descriptions of the modified nouns from the table.	73
5. Match the terms and their definitions.....	74
6. Complete the text with the given words and expressions.	75
MIXED CONDITIONALS	78
Present or future result of a past condition.....	78
Past condition – present result.....	78
Past condition – future result.....	78
Use of modals instead of would in the main clause	78
Past result of present or continuing condition	79
Present condition – past result.....	79
Future condition – past result.....	79
UNIT 8	80
WHAT IS GRAPHICS SOFTWARE?	80
Common Applications.....	80
What Isn't Graphics Software?	80
What Are the Types of Graphics Software?.....	80
What Is Graphics Software Used For?	80
Page Layout Software.....	81
Word Processors	81
Publishing Software.....	81
Illustration Software.....	81
Creative Printing Software.....	81
Presentation Software	82
Web Publishing Software	82
Exercises.....	83
1. Answer the following questions.....	83
2. Explain/describe the following terms and expressions, on the basis of their use in the text.	83
3. Write the descriptions of the modified nouns from the table.	84
4. Match the types of page layout software and their descriptions.	84
5. Complete the text with the given words and expressions	85
UNIT 9	88

MULTIMEDIA.....	88
Types of multimedia data.....	89
Exercises.....	90
1. Answer the following questions.....	90
2. Explain/describe the following terms and expressions, on the basis of their use in the text.	90
3. Write the descriptions of the modified nouns from the table.	91
4. Match the types of multimedia data and their descriptions.....	91
5. Complete the text with the given words and expressions	92
UNIT 10.....	94
PROGRAMMING LANGUAGES	94
An Overview of Popular Programming Languages.....	94
Developing for Desktop.....	95
Developing for Servers	95
Developing for Web Servers.....	95
Developing for Use on Mobile Devices.....	96
Developing for Use in the Browser.....	96
Exercises.....	97
1. Answer the following questions.....	97
2. Explain/describe the following terms and expressions, on the basis of their use in the text.	97
3. Write the descriptions of the modified nouns from the table.	98
4. Connect the sentence parts in accordance with the text and its order to get correct sentences.....	98
5. Complete the text with the given words and expressions.	99
VERBALS - PARTICIPLE	101
Verbals.....	101
Participles	101
Perfect Participles.....	101
UNIT 11.....	102
A DAY IN THE LIFE OF A COMPUTER OPERATOR /PROGRAMMER.....	102
Paying Your Dues.....	103
Present and Future.....	103
Quality of Life.....	103
Present and future	103
Five years out.....	104
Ten years out	104
Exercises.....	105
1. Answer the following questions.....	105

2. Explain/describe the following terms and expressions, on the basis of their use in the text.	106
3. Rearrange the sentence parts to get correct sentences.	106
4. Write the descriptions of the modified nouns from the table.	107
5. Complete the text with the given words and expressions.	108
VERBALS - GERUND	110
Gerund	110
UNIT 12.....	111
COMPUTER NETWORK TYPES.....	111
LAN (Local Area Network).....	111
PAN (Personal Area Network).....	111
Examples of Personal Area Network	111
MAN (Metropolitan Area Network)	112
Uses of a Metropolitan Area Network	112
WAN (Wide Area Network)	112
Examples of a Wide Area Network	112
Advantages of Wide Area Networks.....	112
Disadvantages of Wide Area Networks.....	113
Internetwork.....	113
Types of Internetwork	113
Intranet advantages	113
Exercises.....	115
1. Answer the following questions.....	115
2. Explain/describe the following terms and expressions, on the basis of their use in the text.	115
3. Match the terms with their definitions.	116
4. Complete the text with the given words and expressions.	117
VERBALS – INFINITIVE	118
Infinitive	118
Perfect Infinitive.....	118
UNIT 13.....	119
COMPUTER NETWORK ARCHITECTURE	119
Peer-To-Peer network	119
Client/Server Network.....	119
NETWORK TOPOLOGY	119
Computer Network Topologies.....	119
Bus topology.....	119
Ring topology.....	120
Star topology.....	120

Tree topology.....	120
Mesh topology	120
Hybrid topology.....	121
Exercises.....	122
1. Answer the following questions.....	122
2. Explain/describe the following terms and expressions, on the basis of their use in the text.	122
3. Match the terms with their definitions.	122
4. Complete the text with the given words and expressions.	124
GERUND AND INFINITIVE	126
Similarities and Differences in Use.....	126
UNIT 14.....	129
WHAT ARE THE ADVANTAGES OF THE INTERNET?.....	129
Information, knowledge, and learning.....	129
Connectivity, communication, and sharing.....	129
Address, mapping, and contact information.....	129
Banking, bills, and shopping.....	129
Selling and making money	130
Collaboration, work from home, and access to a global workforce	130
Donations and funding	130
Entertainment.....	130
Internet of Things	130
Cloud computing and cloud storage.....	131
Exercises.....	132
1. Answer the following questions.....	132
2. Explain/describe the following terms and expressions, on the basis of their use in the text.	132
3. Connect the sentence parts in accordance with the text and its order to get correct sentences.....	133
4. Write the descriptions of the modified nouns from the table.	134
5. Complete the text with the given words and expressions.	134
UNIT 15.....	136
BENEFITS OF INTERNET AND SOCIAL MEDIA.....	136
Young people as social participants and active citizens	136
Young people developing a voice and building trust	136
Young people as content creators, managers, and distributors	137
Young people as collaborators and team players.....	137
Young people as explorers and learners.....	137
Young people becoming independent and building resilience	137

Young people developing key and real-world skills.....	138
Exercises.....	139
1. Answer the following questions.....	139
2. Explain/describe the following terms and expressions, on the basis of their use in the text.	139
3. Connect the sentence parts in accordance with the text and its order to get correct sentences.....	140
4. Complete the text with the given words and expressions.	141
APPENDIX 1	143
COLLOCATIONS.....	143
Types of collocations	143
adverb + adjective.....	143
adjective + noun.....	143
noun + noun	143
noun + verb.....	143
verb + noun.....	143
verb + expression with preposition	143
verb + adverb.....	144
APPENDIX 2	146
IDIOMS	146
APPENDIX 3	153
PHRASAL VERBS.....	153
The meaning of phrasal verbs	153
Literal meaning.....	154
Idiomatic meaning.....	154
Construction of phrasal verbs - separable or inseparable?	154
ANSWER KEY	171
LITERATURE	185
Sources of Textual Materials.....	185
References.....	188

PREFACE

This textbook is intended primarily for the students of the Faculty of Electrical Engineering, University of East Sarajevo, as a basic teaching tool for the subject English Language 2. The English Language 2 course is oriented towards the students who have already been learning English as the first foreign language during the primary and secondary education, and whose knowledge of English is at Intermediate or Upper-Intermediate level (B1 or B2). The students attend the lessons in this subject during the second semester of the first year of study, at all study programs. However, due to the content, this textbook can certainly be used in teaching English at other related faculties of technical orientation, primarily those dealing with computing and information technology.

The textbook is a kind of continuation of the textbook for the subject English Language 1 and, they together make a whole, which is completely logical, since these are two teaching subjects that are taught one after the other during the winter and summer semesters of the same year of study. It is based on fifteen teaching units, within which various topics in the field of computer science and information technology are covered, presented in the form of texts and appropriate exercises that accompany them. Also, the teaching units cover three broad areas of English grammar that are not covered in the textbook for English 1: Modal verbs, Conditional sentences and Verbals.

The texts in the textbook are authentic, written by native speakers and, if necessary, adapted and edited to suit the teaching needs, goals and purposes. The covered areas range from general considerations of the impact of computing and information technology on life and society, through general and specific topics related to hardware and software, to programming, networks and the Internet. Each of the texts is accompanied by appropriate exercises. In the exercises, apart from the questions conceived and directed in such a way that, through them, it is easier to understand the texts, both as a whole and by highlighting their most important elements and parts, the emphasis is primarily on the adoption and development of the vocabulary in the field of computing and information technology, understanding the language structures which characterise the texts in this field (with special emphasis on noun compounds and collocations), identification of certain sentence patterns which occur in the discourse of computing and information technology, and development of the ability to create longer and shorter textual units on relevant topics. At the end of the textbook, there are three appendices. The first of them is dedicated to collocations, the second to idioms, and the third to phrasal verbs in English.