Міністерство освіти і науки України
Національний університет водного господарства та природокористування

Кафедра іноземних мов

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МЕТОДИЧНІ ВКАЗІВКИ
та навчальні завдання
до практичних занять і самостійної роботи
з навчальної дисципліни
«Англійська мова для програмістів та ІТ-фахівців»
для здобувачів вищої освіти першого (бакалаврського)
та другого (магістерського) рівнів
всіх освітньо-професійних програм спеціальностей
НУВГП усіх форм навчання

Рівне – 2024

Методичні вказівки та навчальні завдання до практичних занять і самостійної роботи з навчальної дисципліни «Англійська мова для програмістів та ІТ-фахівців» для здобувачів вищої освіти першого (бакалаврського) та другого (магістерського) рівнів всіх освітньо-професійних програм спеціальностей НУВГП усіх форм навчання. [Електронне видання] / Кінащук А. В. – Рівне : НУВГП, 2024. – 100 с.

Укладач: Кінащук А. В., доктор філософії, старший викладач кафедри іноземних мов.

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Вчений секретар науково-методичної ради   Костюкова Т. А.

Зміст

Вступ

Методичні рекомендації укладені відповідно до силабусу навчальної дисципліни та містять завдання, що спрямовані на формування комунікативних та граматичних навичок рівня В2. Курс розрахований на здобувачів першого (бакалаврського) рівня вищої освіти, які навчаються за усіма освітньо-професійними програмами усіх спеціальностей Національного університету водного господарства та природокористування.

Запропоновані завдання у межах професійної тематики програмістів та IT-фахівців мають на меті розширити словниковий запас здобувачів освіти, удосконалити уміння застосовувати вже набуті навички усного мовлення, письма, читання та сприймання на слух висловлювань іноземною мовою, а також критичного мислення, креативності та кооперації.

У межах курсу здобувачі мають змогу послуговуватись сучасними ресурсами актуального Інтернет-контенту удосконалюючи власні навички з фаху із застосуванням відповідних інформаціно-комунікаційних технологій.

Методичні вказівки охоплюють навчальний матеріал іноземною (англійською) мовою, розподілений за чотирма блоками, кожен з яких презентує використання інформаційних технологій у різних галузях сучасного суспільства (у професійному, громадському, бізнесовому та приватному житті

користувача комп'ютерних систем) із практикуванням граматичних вмінь щодо вживання модальних дієслів, дієприкметників, складних речень із підрядними означальними частинами, умовних конструкцій, питальних речень, наказового способу, конструкцій пасивного стану та ін.

Методичні рекомендації стануть помічними у формуванні лінгвістичної та комунікативної компетентностей у професійному житті випускника закладу вищої освіти.

CHAPTER I. IT IN PROFESSIONAL LIFE

Unit 1.1. IT VOCABULARY

Task 1. Write down at least 5 words you associate with Information Technology and give the examples of their use in your own sentences. Explain why these words come to your mind.

Task 2. Watch the video "Speaking Advanced English Vocabulary for Technology" by Anna from englishlikeanative.com (https://www.youtube.com/watch?v=PAjXvjQDYcE&list=PLzFnPi O5TbfxcW46BbpsreVQjLaWPWJep) and learn the words from IT vocabulary. Get ready to explain their meanings in English and give your own examples using new words from the video.

Task 3. Match the words to make the word combinations.

1	to kick	A	technology
2	to enter	B	computer
3	to browse	C	off
4	to boot	D	hotspot
5	to get/go	E	up
6	cutting edge	F	system
7	home	G	processing
8	high	H	spec
9	wireless	I	a webaddress
10	Internet	J	online
11	digital	K	a website
12	operating	L	conferencing
13	computer	M	program
14	to back	N	security
15	to print	O	editing
16	to cut and	P	spec
17	word	Q	up
18	intuitive	R	out

19	video	S	buff
20	top	T	paste

Task 4. Match the words and their definitions.

1	to crash	A	to go through a particular website
2	to download	B	to turn on the power of your computer
3	to get/go online	C	an incredibly modern technology
4	a desktop	D	a computer that isn't portable
5	hardware	E	means to edit digital material like audio, video or photographs
6	digital editing	F	to save a copy of a file from the Internet to your own device
7	to browse a website	G	a program you download onto your hardware
8	kick off	H	a technological tool like a mobile phone or camera
9	to boot up	I	to access the Internet
10	cutting edge technology	J	to get started
11	to access	K	to be able to get into, to locate
12	software	L	the equipment you can physically pick up
13	wireless hotspot	M	very powerful gadget with very top quality components
14	Intranet	N	a simple program to use and understand
15	an intuitive program	O	to move up to more powerful or richer version of your gadget
16	high-spec/top-spec	P	a form of a program that protects your data while you are online
17	Internet security	Q	a network of connected computers within the organization
18	video conferencing	R	a signal to the Internet when you

			aren't physically plugging in a cable
19	to upgrade	S	to stop working
20	a gadget	T	holding meetings remotely

Task 5. Unscramble the words from the video below and make the sentences to demonstrate IT vocabulary use:

yssetm, ffbu, tcheie, pcerssogin, tuc nad stpae, pintr tuo, snde

Task 6. After watching a video about IT vocabulary write a short feedback comment (up to 150 words) where you thank the author and mention the words with their meanings you would like to add to this overview. Use the words and phrases below to comment a learning resource:

I like it!; Good job!; Awesome!; Terrific!; Brilliant!; Marvelous!; Good try but…; I'm impressed; You did a lot of work; Super-Duper!; Superb!; That's the best ever; You haven't missed a thing; Wow!; Nothing can stop you; I was able to listen to the speaker and follow the words given in the video; I enjoyed being able to learn new vocabulary from the video; The resource was useful; I prefer a visual aid with the words and word combinations while listening to the author; The video was easy to understand; I would like to add some extra words; I would recommend…; I really appreciate… etc.

Task 7. Follow the link below and read the article about 40 IT terms and single out the most important ones in your field of studying.

https://www.phoenix.edu/blog/40-it-terms-every-it-professional-needs-to-know.html

Task 8. Read the tips for learning IT terms from the link above and discuss how useful they are.

Task 9. Match the the words to make the word combinations.

1	augmented	technology
2	artificial	reality
3	adaptive	sourcing
4	agile	analytics
5	content	platform
6	cross	data
7	data	development
8	crowd	management
9	disaster	intelligence
10	big	recovery

Task 10. Choose 5 terms from the article above and describe them so that other students can guess the term according to the definition.

Task 11. Choose one term from the article above and make as many questions as you can so that the chosen term is the answer.

Task 12. Choose five words from the article above and find at least 3 synonyms to each one.

Task 13. Roleplay the dialogues where the interviewers ask to explain the importance of the terms from the article above and the interviewees present their ideas using such connectives and word-linkers as *despite, even though, nevertheless, therefore, although, on the contrary, at least, however, as a result* etc.

Task 14. Study the Grammar Appendix fir Unit 1.1. about modal verbs. Find the examples of modal verbs use in the article above and explain their meaning.

Task 15. Complete the sentences with the appropriate modal verbs from the list: *can, must, should, have to, would like to, had better, ought to, may*.

1.   *IT specialists ... develop new programs in tandem.*

2.   All business operations ... be recorded by this program according to the rule of general data protection at this company.
3.   They ... promote new products but I'm not sure they would like to.
4.   We ... to get data from all available sources involving team's work. It's my opinion; it's not your obligation.
5.   All employess ... to care about their hardware and software efficiency. It's a rule everyone should follow.
6.   Cloud-based technology allows performing a specific task faster and more efficiently. You ... learn more about it.
7.   I ... to require more data to store in cache.
8.   He ... deal with content management as he is more interested in creating new content than in bug fixing.

Task 16. Read the article "IT Slang: Development of Telegram Chatbot" by A.Medvedyk, M.Lohoida, Z.Rybchak, O.Kulyna (https://ceur-ws.org/Vol-3396/paper12.pdf) and answer the questions below:

1.   What are two groups singled out to describe Ukrainian IT slang?
2.   What IT slang classifications can you list?
3.   How many subject areas are identified in authors' classification in the article?
4.   Describe computer subject area and give the examples of IT slang use.
5.   How many units does the subject area "Communication with customers, team and management; agreement of work issues" include? List the words illustrating this subject area.
6.   Give the examples of other slang words and their use in your own sentences.
7.   What systems are the most popular for processing IT slang? List their advantages and disadvantages in use.
8.   Describe the process of Telegram chatbot development using such linking words as first of all, to start off with, initially, after that, while, next, meanwhile, finally, eventually, last, in conlusion.

Task 17. Make the sentences using modal verbs and the words from the article:

footer, lug, dialog box, header, configuration, notification, tab, application, showstoppers, and commit.

Task 18. Browse the Internet and find the examples of IT slang use in English.

Task 19. Explain the origin and meaning of such IT slang words as:

джун, контакт-поінт, ріквестор, сапортити, ріферити, матчитись, трейні, овнер, дев, пінгувати, дейлік, міт ап.

Task 20. Study the Grammar Appendix about defining and non-defining clauses. Explain the use peculiarities to your partner.

Task 21. Find the examples of defining subordinate clauses in the article about IT slang and explain the use of the following conjunctions: *that, who, where, whom.*

Task 22. Make 10 sentences with defining subordinate clauses using the conjunctions *who, that, where, when.*

Task 23. Make 10 sentences with non-defining subordinate clauses using the conjunctions *who, which, where, when.*

Task 24. Look at the picture below and describe how a Telegram chatbot works to help people learn slang vocabulary.

Task 25. Read the sentences below and correct 6 mistakes:

1.   *IT slang who was discussed in the article is becoming more and more popular in use.*
2.   *IT employees who works nowadays in different fields use computer slang to save their time and simplify communication.*
3.   *There are some options where allow IT-specialists to find the synonyms for IT slang.*
4.   *Some applications have the advantages that should be considered while finding the synonyms.*
5.   *The author presents translations for Ukrainian words when can be useful to choose the most appropriate ones.*

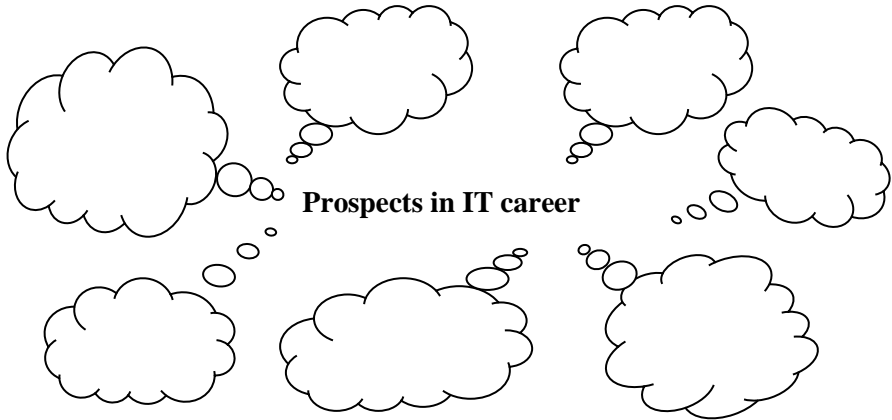6.   *This system that was launched in 2023 works efficiently according to all indicators.*

7.   *Telegram chatbot, that was developed to simplify learning English, can accompany the user while checking words' origin and meanings.*

Task 26. Roleplay the dialogue where you discuss the possibility of IT slang use in everyday life. Mention such fields of slang use as professional life, studying, and private life.

Unit 1.2. CAREER IN IT

Task 1. Think of any prospects people can achieve in IT. Make some notes and present the ideas in this field. Use the map below.

Prospects in IT career

Task 2. Read the article "What Is Information Technology?" (https://www.comptia.org/content/articles/what-is-information-technology). Follow key questions in the article and get ready with summarized answers (up to 3 sentences).

Task 3. Make questions to the answers below:

1.   *What ……………………………………………………………………?*
There are a lot of different trends to study in IT: from analytics to software development.
2.   *How………………………………………………………………?*
IT supports business and helps with its productivity.
3.   *Does ………………………………………………………….............……?*
Yes, it does. It concerns with business operations and industry.
4.   *How ……………………………………………………………...........…?*
There were 12.1 million technology-based jobs in 2020.
5.   *When………………………………………………………………..?*

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In 2020.

6.   What……………………………………………………….…….....?
Hardware-based IT jobs include help desk technician, computer technician and others.
7.   How much…………………………………………………….....?
Cybersecurity engineers can earn more than $135 000.
8.   Are…………………………………………………….…..…?
Yes, there are. Computer repair specialist, help desk specialist and other jobs are entry-level ones in IT.

Task 4. Study the Grammar Appendix for Unit 2 about Present and Past Participles. Read the rules and examples to use.

Task 5. Find the examples of Past Participle use in the article above and explain their meaning.

Task 6. Make the sentences with such Present and Past Participles as:

developing – developed, started – starting, interesting – interested, covered – covering, used – using, certified – certifying, intrigued – intriguing, based – basing, involved – involving, limited – limiting.

Task 7. Watch the video "Top 10 Jobs in Tech" (https://www.indeed.com/career-advice/finding-a-job/types-of-it-jobs), read the article "21 Different Types of IT Careers To Explore" (https://www.indeed.com/career-advice/finding-a-job/types-of-it-jobs) and complete the table.

No.	Job	Education	Respon-sibilities	Average salary
1	IT Specialist			
2	Web Developer			
3	Network Systems Administrator			
4	App and Game			

	Developer/Tester			
5	Product Manager			
6	Software Tester			
7	Information Security Analyst			
8	Software Engineer			
9	Machine Learning Engineer			
10	DevOps Engineer			
11	IT Technician			
12	Support Specialist			
13	Quality Assurance Tester			
14	Web Developer			
15	IT Security Specialist			
16	Computer Programmer			
17	Systems Analyst			
18	Network Engineer			
19	Software Engineer			
20	User Experience Designer			
21	Database Administrator			
22	Data Scientist			
23	Computer Scientist			
24	IT Director			

Task 8. Describe a job you see in the picture below. Use Present Simple Tense, Present Perfect Tense, Present Continuous Tense, and Present Perfect Continuous Tense.

Task 9. Study Grammar Appendix for Unit 2 and explain to your partner how to make different types of questions.

Task 10. Make Wh-questions relating to the article above. Use the verbs to *rely on, be interested in, depend on, to be responsible for, work on, belong to, choose from, associate with, relate to, and collaborate with.*

Task 11. Look through the article "Top 10 Jobs in Tech" once more and answer the questions below:

1. *Which job do you find the most prospective one? Why?*
2. *How much does a quality assurance tester earn per year?*
3. *What primary duties does a web developer have?*
4. *Which requirement from the list for a system analyst do you consider as the most difficult one to achieve?*
5. *Whose salary is the highest in the article?*
6. *What job has the highest responsibility?*
7. *Whose job is the least interesting?*
8. *Who is the author of this article?*
9. *Where can you find more information about IT jobs?*
10. *Which job from the article would you like to experience in your life?*

Task 12. Choose any job from the article above and find more information in the Internet researching forums and blogs in English. Make notes and present the chosen job discussing advantages and disadvantages you have found.

Task 13. Translate the word combinations below and make special questions with them:

to maintain the infrastructure, to provide troubleshooting assistance, to keep up with technological advances, to perform tests on computer equipment, to render services, an entry-level role, software-as-a-service company, to be up to industry standards, self-paced learning, to secure employment, available and efficient, t orequire a master degree, internal stakeholders, the process of revising products, accessible to navigate.

Task 14. Correct the mistakes in the questions below:

1. *Who lead an IT company if it is located abroad?*

*2.		How much employees can work in an IT company simultaneously?*
*3.		Could you tell me where I can help you with mobile applications?*
*4.		What job do you prefer more: support specialist or IT security specialist?*
*5.		They collect necessary data to review all results, didn't they?*
*6.		Do a user experience designer deal with product organization?*
*7.		What does database administrators employ to organize data?*

Unit 1.3. COMPUTER ETHICS AND CYBERSECURITY

Task 1. Answer the following questions:

1.   Who is an ethical person? Describe the appropriate character features.
2.   Are you an ethical person? Why/Why not?
3.   Is ethics important at work? Why/Why not?
4.   What is computer ethics?

Task 2. Study Vocabulary Appendix for Unit 1.3. Read the words, their translation, and examples of usage. Make your own sentences with the words you have learned.

Task 3. Watch the video "10 Commandments of Computer Ethics" (https://www.youtube.com/watch?v=-4zcWTD-HCk) and complete the gaps in the sentences below:

1.   Computer Ethics is a ... of moral rules that controls how we use computers.
2.   These rules are called ... .
3.   Do not use a computer to ... other people.
4.   Do not ... with other people's computer work.
5.   Do not ... around in other people's computer files.
6.   Do not use a computer to ... .
7.   Do not use a computer to ... .
8.   Do not copy or use proprietary software for which you did not ... .
9.   Do not use other people's computer resources without ... or payment.
10.   Do not ... other people's work as your own.
11.   Do think about the social ... of the program you are writing or the system you are designing.
12.   Do always use a computer in a considerate and ... manner.

Task 4. Listen to the video once more and write down 10 Commandments of Computer Ethics without looking at the subtitles.

Task 5. Study the Grammar Appendix for Unit 1.3. about the Imperatives use. Make your own examples where you give some orders.

Task 6. Roleplay the dialogue with your partner where you discuss Computer Ethics commandments mentioned above and explain why they are so important.

Task 7. Study the Vocabulary Appendix for Unit 1.3. Study the words pronunciation, their translation and use. Make your own examples to use new vocabulary.

Task 8. Watch the video "The Internet: Cybersecurity & Crime" (https://www.youtube.com/watch?v=AuYNXgO_f3Y), make notes according to the points below and get ready to discuss it:
- the importance of a cyber army;
- what are the viruses;
- how the viruses work and get on your computer;
- what are the fishing scams.
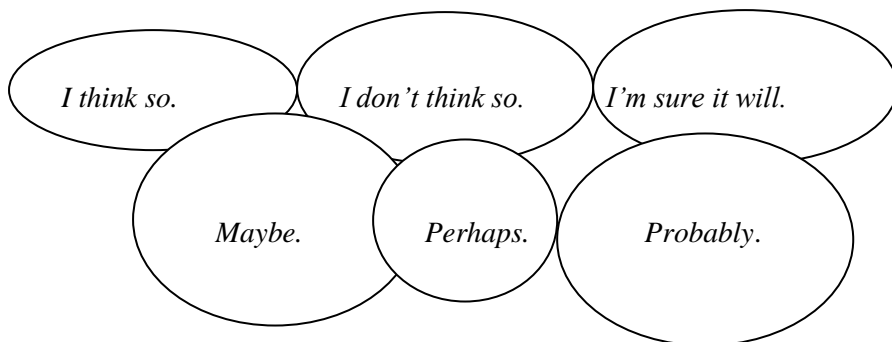
Task 9. Match the words to make word combinations.

1	cyber	A	scams
2	to exploit	B	a crime
3	to commit	C	credentials
4	well-armed	D	security
5	to shut down	E	vulnerabilities
6	fishing	F	cyber army
7	to hit	G	a website
8	to respond	H	up
9	to keep	I	people
10	to trick	J	with requests
11	to take down	K	to requests

12	login		L	water supplies

Task 10. Make sentences with new words from the Vocabulary Appendix:

cyber security, compromised, hacked, hijacked, to commit a cyber crime, to shut down, to take down, to hit with requests, to brag, security updates, overloaded, to everwhelm, to kkep up.

Task 11. Read the predictions below and express you opnion about each one. Use the useful language:

I think so.

I don't think so.

I'm sure it will.

Maybe.

Perhaps.

Probably.

1.   There won't be any cyber crimes in the future due to AI work.
2.   There will be a lot of cyber attacks in the future because of IT progress in the world.
3.   Every country will have a powerful cyber army to defend citizens from being hijacked or tricked.

Task 12. Move around the class and find those ones, who learned the biggest amount of new words and learned grammar rules about imperatives best.

CHAPTER II. IT IN PUBLIC LIFE

Unit 2.1. DIGITAL FOOTPRINT IMPORTANCE

Task 1. Do you know what a digital footprint is? Look at the pictures below and describe what you see. Guess what these pictures can mean and how they are related to a digital footprint.

Task 2. Study the Vocabulary Appendix for Unit 2.1. and learn new vocabulary.

Task 3. Watch the video "What is a Digital Footprint?" (https://www.youtube.com/watch?v=dmQGq_FNBpE&t=57s) and discuss 4 tips given to manage your own digital footprint.

Task 4. Look at the words and phrases below and choose the right meaning, a or b.

- reputation:
  a) image;
  b) work;
- daily habits:
  a) customs and traditions;

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b)   routine;
- digital footprint:
    a)   digital track;
    b)   printed picture;
- judgement:
    a)   opinion;
    b)   article;
- recruiter:
    a)   employer;
    b)   employee;
- privacy settings:
    a)   personal information;
    b)   personal belongings.

Task 5. Download a guide "Digital Footprinting Analysis for Fraud Prevention: Full Guide" from the website https://seon.io/resources/guides/digital-footprint-fraud-prevention/.
Look through the guide and get ready to answer the following questions:

1.   What aspects of online identities is a digital footprint linked to?
2.   What types of digital footprint do you know?
3.   What is an example of a digital footprint that is linked to an email address?
4.   How to avoid a fraud while digital footprint analysis?
5.   When is it better to have more online profiles?

Task 6. Consult The Oxford Advanced Learner's Dictionary (https://www.oxfordlearnersdictionaries.com/) to find the definitions for the following words:

default, to upvote, to downvote, distinction, appealing, input, deliberate, overlap, to upload, fraudster, lookup, disposable, to breach, defense, to mimic, e-commerce, to undertake.

Task 7. Study the Grammar Appendix for Unit 2.1. and learn how to use Past Perfect Tense.

Task 8. Roleplay the dialogue and discuss the steps to prevent your digital footprint from fraud. Use the words from Task 6 and Past Perfect Tense.

Task 9. Look at the picture below and think what kind of a digital footprind a person can have. Give tips how to prevent this person from a fraud.

Task 10. Design and present the audience your own digital footprint.

Unit 2.2. E-DOCUMENT WORKFLOW SOFTWARE

Task 1. Answer the questions below:

1. What do you know about electronic document workflow?
2. Have you already worked with software for electronic document workflow?
3. What advantages and disadvantages does e-document workflow have?

Task 2. Study the Vocabulary Appendix for Unit 2.2. and learn the words.

Task 3. Find the examples of new words usage in the Internet. Analyze the context and discuss their meanings.

Task 4. Write 6 sentences where new words are used imprecisely and ask your partner to find the mistakes in words usage.

For example: *I was in the field yesterday and I tried to manage field data collection.*

Task 5. Unscample the words from the Vocabulry Appendix for Unit 2.2.:

strageo, ipntu, irucn, lalignbe, temlapte, aryar, astes, facletatii, asngis

Task 6. Translate from Ukrainian in English and give your examples to use translated words and word combinations:

локальне зберігання, налаштування, масштабованість, відповідність, актив, введення даних, шаблон, масив даних, призначити, підтверджений, вартий використання, збірн даних на місці

Task 7. Match the words to make word combinations

1	Field data	A	customization
2	valuable	B	labeling
3	dedicated	C	storage
4	on-premise	D	asset
5	standout	E	collection
6	robust	F	interface
7	white-	G	routed
8	automatically	H	features
9	drag-and-drop	I	support
10	learning	J	curve

Task 8. Look through the article "10 Best Document Workflow Software Reviewed For 2024" by Hermann Fink (https://thedigitalprojectmanager.com/tools/best-document-workflow-software/). How do you think what key points the author is going to present in his research? Who is the author? What criteria has the author used to select the best document workflow software?

Task 9. Read the article and complete the chart below:

No.	Software name	Price	Advantages	Disadvantages
1	Jotform			
2	Fluix			
3	Docusign			
4	OpenText			
5	FileHold			
6	DocuWare			
7	Applied Innovation			
8	Adobe Acrobat Sign			
9	Amazon			

No.				
	WorkDocs			
10	Kofax			

Task 10. Read the second part of the article and analyze other options for document workflow software. Complete the chart below and compare given software. Choose the best one and the worst one from two lists.

No.	Software name	Price	Advantages	Disadvantages
1	PandaDoc			
2	Wrike			
3	Arena, a PTC Business			
4	Dokkio			
5	MasterControl			
6	MFiles			
7	Meridian			
8	Document Logistix			
9	NetDocuments			
10	docEdge DMS			
11	OpenKM			
12	Rubex by eFileCabinet			
13	Microsoft SharePoint			

Task 11. Think of your own criteria you would like to add while analyzing electronic document workflow software. Make your own chart where you analyze IDOC software for electronic document workflow. Present the results of your research to the audience.

Unit 2.3. HEALTH IT

Task 1. Look at the picture below and guess how IT deals with healthcare.

Task 2. Look through PlayStore or AppStore and find the most popular healthcare applications. Describe their interface and key characteristic features according to such points as data safety, ratings and reviews, last updating, amount of downloads, download size, required operation system, release date.

Task 3. Study the Vocabulary Appendix for Unit 2.3. and learn new words.

Task 4. Match the words to make word combinations.

1	MRI	A	software
2	electronic health	B	monitoring
3	treatment	C	documentation
4	clerical	D	record
5	medical	E	scanners
6	e-prescribing	F	flow
7	manual	G	history
8	ultimate	H	tasks
9	remote patient	I	inventory
10	cash	J	goal

Task 5. Read the article "Information Technology in Healthcare: Applications and Role" (https://www.fingent.com/blog/the-application-and-impact-of-information-technology-in-healthcare/) and answer the questions below:

1. What is health IT?
2. When is electronic health record used?
3. What benefits does medical practice management have?
4. How can e-prescribing software help while people treating?
5. What is homecare telehealth?
6. What is the aim of medical billing software?
7. List the benefits of health IT.

Task 6. Study the Grammar Box for Unit 2.3. about Passive Voice Formation. Make your own sentences whehe you use Passive Voice.

Task 7. Find the examples of Passive Voice use in the article above. Explain the rules of its formation.

Task 8. Fill in the gaps in the sentences with appropriate auxiliary verbs.

1. *This software tools ... used to expand more data every day.*
2. *Last week electronic health records ... shared with all patinents.*
3. *Health IT system can ... analyzed by IT specialiasts next month.*
4. *Medical practive management systems ... stored before they were shared with other institution.*
5. *These errors ... caused by mix-up in manual documentation that happened yesterday.*
6. *This report ... generated before you finish this task.*
7. *The next steps ... taken after we get your cash flow.*
8. *Our time ... saved due to your efforts last night.*
9. *Patient's medication ... regularly tracked due to your application.*
10. *That place ... located not so far from the hospital.*

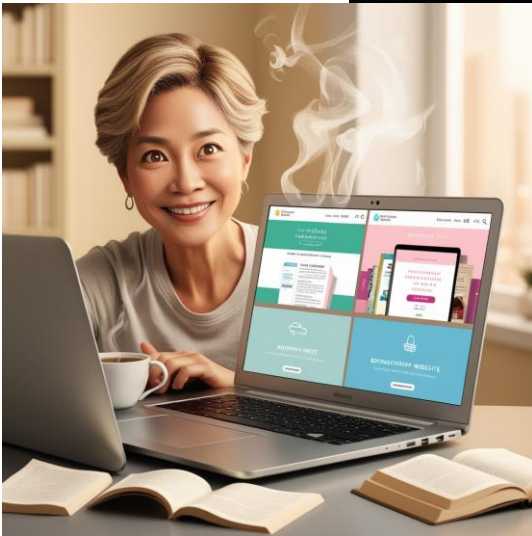**Task 9.** Study the article once more and present benefits of IT in the healthcare industry.

Task 10. Look at case studies on the website fingent.com and download one of the case that deals with healthcare application (https://www.fingent.com/case-studies/), for example, "An Innovative Web & Mobile Weightloss Tracking Solution" or others. Present this case study to the audience discussing the main points.

Task 11. Think of your own healthcare application: the aim, target audience, principles to function, price, the impact etc. Present your materials to the audience.

CHAPTER III. BUSINESS IT

Unit. 3.1. WEBSITE DEVELOPMENT

Task 1. Look at the people in the pictures and make guesses about their lives.

Task 2. Tell the audience what you know about web developer job? Does this job attract you? Why/Why not?

Task 3. Listen to the song "I Am a Web Developer" by Midnight Crisis (https://www.youtube.com/watch?v=VrP50TrZgi4). Have you already heard this song? Do you like it? What is the message of this song?

Task 4. Listen to the song once more and write down as many words from the lyrics as you hear. Check your partner's notes and correct spelling mistakes.

Task 5. Think of 5 extra lines you would like to add to the lyrics. Write down your ideas and share with the audience. Choose the best lines you would like to hear in this song.

Task 6. Read YouTube comments to this song. Find the examples of Present Simple and Present Countinuous Tenses. Explain the usage of mentioned tenses in the analyzed sentences.

Task 7. Study the Grammar Appendix for Unit 3.1. where Present Simple Tense and Present Continous Tense are compared. Learn the difference between action and non-action verbs.

Task 8. Complete the sentences with Present Simple Tense or Present Contionuous Tense using the verbs in brackets.

1.   I ... this software these days. I can't help you with any other tasks, sorry (develop).
2.   You ... always... my folders! I'm fed up with this! (delete)
3.   ... it once more and I'll take down your website (do).
4.   Let's have a break! ... pizza and ... it with cheese (heat up, sprinkle).
5.   She ... currently ... how to install new software. I'm not sure she will be glad to see you (learn).

6.   Our team ... custom websites and they always work perfectly (maintain).
7.   Who ... your budget if you are so mean? (suit)
8.   We ... cutting-edge brand apps at the moment. Don't distract me! (create)
9.   I ... such bugs without any surprise any more! It's my routine (experience).
10.   A lot of customers ... our profile every single day. But there aren't any calls! (view)

Task 9. Write a feedback comment to the song using Present Simple and Present Continous Tenses for action and non-action verbs (up to 100 characters).

Task 10. Study the Vocabulary Appendix for Unit 3.1. and learn new words and words combinations.

Task 11. Read the article "What is Web Development? (Web Developer (2024 Guide))" (https://brainstation.io/career-guides/what-is-web-development). Single out key points for you in this article and present them to the audience.

Task 12. Find the information about top web development companies in the world. Tell your partner how they work, what makes their ranking so high, why their prodicts are so special. Would you like to work for them? Why? Why not?

Unit 3.2. DIGITAL FARMING

Task 1. Look at the pictures and decide how agriculture is connected with IT. Does your country deal with digital farming? Why and how? If not, why?

Task 2. Make your own mind-map where you present your ideas how to improve Ukrainian farming with IT.

Task 3. Study the Vocabulary Appendix for Unit. 3.2. Learn new words and five your own examples for their use.

Task 4. Follow the link https://www.bayer.com/en/ and study the website. Answer the questions below:

1. *What or who is Bayer?*

2. *How do you interpret the motto "Health for all, Hunger for none"?*
3. *Where is this company located?*
4. *What kind of products or services do they offer?*
5. *What mission do they have?*
6. *How do they concern with agriculture?*
7. *What is so special with their digital farming?*

Task 5. Read the article "Smart Solutions for a Sustainable Future" (https://www.bayer.com/en/agriculture/digital-farming) and get ready to explain how mentioned terms deal with digital farming:

to navigate an ever-evolving landscape, changing weather patterns, digital farming applications, weather to in-season field health, to give individual field areas to thrive, plant health, multispectral cameras, impacted by various degrees of crop stress – e. g. pests, disease or drought, in-field soil sensors, to monitor detailed soil conditions such as moisture and nutrient levels, geo-location, to apply specific inputs, robust data analytics platforms, the Internet of things, smart combines, GPS data with historical and forecast field information, to conserve fuel and reduce the associated carbon emissions.

Task 6. Visit Bayer's career page (https://www.bayer.com/en/career/agriculture-technology-jobs) and learn about a team you can belong to. Read the quotations IT employees have given about heir work and choose the brightest one. Explain your choice to the audience.

Task 7. Write down at least five new word combinations from quotations from Task 6 and make your own sentences demonstrating their usage.

Task 8. Watch the video "Growing Together: Inside Bayer's Digital Farming Team" (https://www.bayer.com/en/career/agriculture-

technology-jobs) and say what mood it has. What team's environment does Bayer have? How to achieve this result? What motivates these people?

Task 9. Watch the video again and fill in the gaps below with the words your hear from the video:

1.   One thing we do is to give folks within ... farming the opportunity to actually speak to a grower firsthand.
2.   It help stay connected to what the growers are finding ... within the tools and capabilities we're developing.
3.   We come from different ... of life.
4.   We have such ... backgrounds.
5.   You're coding, you're trying to develop a ... and there are days when you're working on research and you're trying to analyze if this tool is great.
6.   I love agriculture just because it's so ... and people don't realize how much science really goes into how we manage our crops.
7.   I am really passionate about ... .
8.   One thing I love about farming is there are so many ... within our organization that I know the door is open.
9.   The unique thing about our ... is that so many people are willing to jump in and help.
10.   One of the special things about our culture here is that we are never ... for perfection.
11.   We can better innovate and ... our customers.
12.   What really ... you up in the morning?

Task 10. Analyze team's answers about their motivation to get up in the morning and work. Think what gets you up in the morning while you are studying at university. Share your thoughts with other students.

Task 11. Watch the video once more and find as many mistakes in employees' speeches as you can. Write down the timecode for each mistake and explain the rule you should follow in order to correct it.

Task 12. Share your ideas for risks you can face in this field with other students. Think about working experience, required education, team's support, and any prospects dealing with climate changes.

Task 13. Check your partner's knowledge about new words' spelling. Dictate new words from the Vocabulary Appendix for Unit 3.2. and corerect spelling mistakes if there are any. Then change the roles.

Task 14. Imagine that you work for Bayer.Global. Look at the pictures and say how you could help farmers as a company IT specialist.

Unit 3.3. BUILDING INFORMATION MODELING

Task 1. Look at the pictures below. What tools can be used in order to design such projects?

Task 2. Watch the video (https://www.autodesk.com/solutions/aec/bim) and say what BIM is, describe its importance in multidisciplinary projects, tell your partner how important the collaboration in BIM is.

Task 3. Watch the video once more and write down key word combinations. Share your notes with other students and let them make sentences with your word combinations. Check their sentences. If there are any mistakes, correct them.

Task 4. Study the Vocabulary Appendix for Unit 3.3. and learn new words and word combinations.

Task 5. Download an executive summary "Global BIM and Digital Twin for Built Environment Growth Opportunities" by "The Growth Pipeline" Company (July 2023, https://damassets.autodesk.net/content/dam/autodesk/www/solutions/ aec/bim-and-digital-twin-report-executive-summary-en.pdf) and get ready to discuss the following points:
-   segment characteristic BIM deals with;
-   types of digital twins BIM can develop;
-   top BIM performers and emerging innovators;
-   BIM mandates throughout the world.

Task 6. Work in groups. Choose a sector you would like to work on with your team from the list below. Read the information about your sector on the website (https://www.autodesk.com/solutions/aec/bim) . Use the materials from the website to present your sector to the audience (e-books, specialists' stories, leaflets about finished projects etc.). Divide your speech among all team's participants so that everybody can present some part of information you have researched. Use some pictures to make your speech brighter, your own experience in BIM (if any is available) and questions to the audience to make your presentation more vivid.
-   civil engineering;

- mechanical, electrical modeling and plumbing;
- architecture;
- structural engineering.

Task 7. Look through the software that may be useful while BIM and complete the chart below.

No.	Software	Short characteristics	Your feedback
1	Docs		
2	BIM Collaborate		
3	Takeoff		
4	Build		
5	Assemble		
6	Pype		
7	Proest		

Task 8. Study the Grammar Appendix for Unit 3.3. and make your own conditional sentences using new vocabulary.

Task 9. Make 10 conditional sentences with 7 mistakes. Let your partners find and correct your mistakes. Then change the roles.

Task 10. Think of any situations when you needed BIM in your life. When was it? What did you do? Would you like to join BIM team? Why? Why not?

CHAPTER IV. IT AT HOME

Unit 4.1. BUILDING DIGITAL CITIZENSHIP WITH YOUR CHILDREN

Task 1. Think how IT has already changed your life. How does IT impact on the children? Suggest your ideas and discuss it with your partner.

Task 2. Study the Vocabulary Appendix for Unit. 4.1. and learn new words.

Task 3. Read the article "15 Common Sense Ideas About the Use of Technology at Home" by Tim Schwartz (https://www.whitbyschool.org/passionforlearning/15-common-sense-ideas-about-the-use-of-technology-at-home) and say if you agree with the ideas presented in the article. Why/Why not?

Task 4. Study the Grammar Appendix for Unit. 4.1. and make your own sentences with *used to, get used to* and *be used to*.

Task 5. Compare children's life with and without IT. Present your short speech where you use constructions *used to, get used to, be used to*.

Task 6. Work in pairs. List IT shortenings you know. Check if your partner knows their meanings. If not, explain what these shortenings mean.

Task 7. Read the second part of the Vocabulry Appendix for Unit 4.1. with IT shortnenings (https://gdcitsolutions.com/resources/it-acronyms-abbreviations/). Learn their meanings and give your own examples to use.

Task 8. Make a dialogue with your partner. Use IT shortenings and discuss the difficulties to use them.

Task 9. Study a comprehensive glossary of IT abbreviations and acronyms. Use it while coding. Choose 10 abbreviations and try to explain their meaning not naming specific words from shortening. Let other students guess what they mean.

Unit 4.2. SMART HOMES

Task 1. Think of a smart house. What do you kow about it? Why is it called smart? Have you ever been to such house? Would you like to spend there at least one day? Why? Why not?

Task 2. Watch the video "Smart Homes of the Future Are Connecting More Than 150 Devices" (https://www.youtube.com/watch?v=nVlDPjPtjW8). Say what you think about such prospects to live. Would you like to experience such life being young?

Task 3. Study the Grammar Appendix for Unit 4.2. about Present Continuous Tense, Future Continuous Tense, Future Simple Tense and be going to. Make your own sentences to illustrate the rules.

Task 4. Study smart home glossary (https://www.sinopetech.com/us/blog/2019/03/05/smart-home-101-your-smart-home-glossary/) and learn new words. Make 7 sentences with new words and grammar rules from Task 3.

Task 5. Unscramble the words below:

buh, glctoniaoeo, miiw-, roteur, thread, scnee, msinghe, lopwero-w

Task 6. Listen to the track dealing with the pros and cons of having a smart house (https://www.longtermdisabilitylawyer.com/2015/08/pros-cons-smart-home/). Say, if you agree with the interviewed person or not. Why? Why not?

Task 7. Read the article "The Pros and Cons of Having A Smart Home" (https://www.longtermdisabilitylawyer.com/2015/08/pros-cons-smart-home/) and write down new words you haven't learned before. Consult the dictionary to study their meanings

(https://www.oxfordlearnersdictionaries.com/). Make your sentence with new words.

Task 8. Look through the article once more and answer the questions below:

1.   *What types of technology are there to install in a smart house?*
2.   *What can help you prevent pipes from freezing?*
3.   *Are smart houses convenient for disabled people? Explain your opinion.*
4.   *What kind of extra security features can smart houses provide?*
5.   *Is there any potential for getting lower bills while living in a smart house? Why?*
6.   *How do insurance companies support those who live in smart houses?*
7.   *Is it expensive to live in a smart house?*

Task 9. Watch the video "Smart Home Invasion" (https://www.youtube.com/watch?v=VT1MxFQ5EAc).   Make conclusions if smart houses are really impossible to be hacked. What do you think about risks to be hacked via a smart house? How to save your belongings and your identity if your smart house has already been hacked?

Task 10. Look at the pictures and describe rooms in a smart house using new vocabulary.

Task 11. Find the reviews people have already left after having such an experience of living in a smart house. What do they say? Present your finding to the audience. Do you agree with these statements? Why? Why not? What would you like to change in living in a smart house? Why?

Unit 4.3. INTELLIGENT CAR TECHNOLOGY

Task 1. Look at the pictures below. What do these cars have in common?

Task 2. What do you know about intelligent cars? Why are they so special? Have you ever driven an intelligent car? Would you like to own such car?

Task 3. Study the Vocabulary Appendix for Unit 4.3. and learn new words.

Task 4. Match the words to make word combinations.

1	advanced	A	efficiency
2	to blend	B	doors
3	tech-savvy	C	into
4	to boost fuel	D	connectivity
5	sleek	E	market
6	plethora of	F	companions
7	falcon-wing	G	around
8	techy	H	design
9	EV	I	sensors
10	plug-and-play	J	operation
11	to stick	K	twist
12	to squeeze	L	into

Task 5. Read the blog about intelligent car technologies (https://www.autopi.io/blog/intelligent-car-explained/) and answer the questions below:

1.   *What features do intelligent cars have?*
2.   *What is the aim of sensors and cameras of an intelligent car?*
3.   *What is autonomous driving?*
4.   *What does the term of car-to-car communication mean? How does it work?*
5.   *How do safety features protect the car on the road?*
6.   *What models of intelligent cars do you know?*
7.   *What is telematics? How does it relate to a car intelligent system?*

Task 6. Visit a forum Arduino.CC (https://forum.arduino.cc/t/creating-a-smart-car/1170359). Read one of the stories and replies the author has got. Analyze the question and

answers dealing with a car programming. Find the mistakes the author has made and find a right solution.

Task 7. Think of any feature you would like to improve in an intelligent car. Write questions you could ask using the forum above.

Task 8. Choose a model of any intelligent car you would like to buy. Describe its design and smart features it has.

VOCABULARY APPENDICES

Vocabulary Appendix. Unit 1.1. IT VOCABULARY

No.	Lexical unit	Translation	Use in a sentence
1	to kick off	починати	*Let's kick off and finish this task as soon as possible!*
2	to boot up	увімкнути комп'ютер	*I've just booted up my PC. Wait a minute!*
3	cutting edge technology	сучасна технологія	*This cutting edge technology will simplify our work.*
4	high-spec/top-spec	потужний	*I've got a high-spec laptop! I can perform any task!*
5	digital editing	редагування цифрових матеріалів	*I have been studying digital editing for three months. I'm ready to help with your videos.*
6	computer buff	просунутий користувач	*Who is there a computer buff? I have some problems with installing this program.*
7	to back up	зберігати	*To back up is expremely important step if you want to keep your files saved.*
8	word processing	обробка текстів	*I need some software to help with word processing.*
9	intuitive program	проста у використанні програма	*I have never seen such an intuitive program. It's so easy.*
10	augmented reality	доповнена реальність	*Augmented reality deals with 3D content and a real world.*
11	agile development	гнучка розробка	*Agile software development improves the process of*

			teamworking.
12	customer relationship management	управління взаємовідносинами з клієнтами	*I study customer relationship management to be able to manage customers' needs and problems.*
13	disaster recovery	аварійне відновлення	*Learn disaster recovery carefully if you want to be able to recover your data.*
14	disruptive technology	проривна технологія	*Our aim is to use only disruptive technology in order to stay leaders in this field.*
15	shadow IT	тіньові IT	*If you want to avoid any restrictions, involve shadow IT.*
16	single sign-on	технологія єдиного входу	*Single sign-on allows me to use a lot of apps simultaneously without numerous authorizations.*
17	spoofing	підробка	*I consider this cyberattack as spoofing.*
18	wearable	розумний одяг	*Wearable technology is worn by users to interact in the surrounding.*

Vocabulary Appendix. Unit 1.2. CAREER IN IT

No.	Lexical unit	Translation	Use in a sentence
1	IT Specialist	фахівець ІТ	*I always wanted to be an IT specialist.*
2	Web Developer	веб-розробник	*Who is the best web developer in this team?*
3	Network Systems Administrator	адміністра-тор мережевих систем	*I need a network systems administrator's service and I can't wait.*
4	App and Game Developer/Tester	розробник/ тестер додатків та ігор	*They have been looking for an app developer for 2 weeks.*
5	Product Manager	менеджер продукції	*Our product manager will care about the quality of the work that was done.*
6	Software Tester	тестер програмного забезпечення	*Software tester is working from his home office these days.*
7	Information Security Analyst	аналітик інформацій-ної безпеки	*Could you ask your information security analyst to check data and information we got yesterday?*
8	Software Engineer	інженер-програміст	*I don't trust anyone except of a software engineer.*
9	Machine Learning Engineer	інженер машинного навчання	*Machine learning engineer will take some courses abroad to improve his skills.*
10	DevOps Engineer	DevOps-інженер	*DevOps engineer has got some special task to perform, so, don't distract him.*

11	IT Technician	IT-технік	*Could you find a new IT technician? The previous one doesn't have enough experience to work in our field.*
12	Support Specialist	спеціаліст з підтримки	*Please, call our support specialist. He will explain all mistakes we have made.*
13	Quality Assurance Tester	тестувальник гарантії якості	*All necessary tests have already been done by our quality assurance tester.*
14	Web Developer	веб-розробник	*I need to hire a professional web developer to develop new program space.*
15	IT Security Specialist	спеціаліст з IT-безпеки	*Nowadays IT security specialists are highly important in the world of fake news and frauds.*
16	Computer Programmer	комп'ютер-ний програміст	*Computer programmers have the richest experience in this field. Ask them to get the best advice.*
17	Systems Analyst	системний аналітик	*What do you know about systems analyst's work? Share your thoughts with us.*
18	Network Engineer	мережевий інженер	*We could find a new network engineer if we had more money.*
19	Software Engineer	програмний інженер	*Software engineer won't develop fraud programs.*
20	User Experience Designer	дизайнер взаємодії з користувач-чем	*We lose our customers every day. Let's hire a user experience designer.*

21	Database Administrator	адміністра-тор бази даних	*If there are some mistakes in data storage, we need to ask a database administrator for help.*
22	Data Scientist	фахівець даних	*Data scientist's job is one of well-developed ones.*
23	Computer Scientist	інформатик	*Computer scientist has already finished his work. Let's ask him for some pieces of advice.*
24	IT Director	IT-директор	*I'm afraid of meeting our IT director. He is a furious man now.*

Vocabulary Appendix. Unit 1.3. COMPUTER ETHICS AND CYBERSECURITY

No.	Lexical unit	Translation	Use in a sentence
1	to keep peace	зберегти мир	*In our team everybody wants to keep peace and avoid conflicts.*
2	to keep safe	зберігати в безпеці	*You need to keep your data safe.*
3	to harm people	шкодити людям	*If you don't want to harm people, stop spreading rumors in our team.*
4	to interfere with someone's work	заважати комусь працювати	*To be an ethical person means not to interfere with someone's work.*
5	to snoop around in someone's files	копирсатися в чужих документах	*If you snoop around my files, I will tell our supervisor what you are doing.*
6	proprietary software	власне програмне забезпечення	*I won't spread your proprietary software. It's illegal.*
7	to claim someone's work as your own	називати чиюсь роботу своєю	*He claims John's work as his own. I don't know what to say.*
8	social impact	соціальний вплив	*Some bloggers have extremely big social impact on the audience.*
9	to design a system	розробити систему	*To design a system is to get necessary knowledge and to obtain the appropriate experience.*
10	in a considerate	в уважний і шанобливий	*Please, behave in a considerate and respectful*

	and respectful manner	спосіб	*manner if you want to work in our team.*
11	cyber security investigations	кібер-безпекові дослідження	*We have studied all cyber security investigations.*
12	healthcare records	медичні записи	*I have read healthcare records while waiting for you.*
13	compromised	скомпроме-товано	*He was compromised and didn't know what to do.*
14	nuclear centrifuges	ядерні центрифуги	*Nuclear centrifuges can be hacked, and this can ruin our plans.*
15	hacked and unmanned	зламаний та безпілотний	*That website was hacked and unmanned. We lost a lot of clients because of that.*
16	hijacked	викрадений	*New data was hijacked. We need to apply to cyber policemen to get some help.*
17	to exploit vulnerabilities	використо-вувати вразливі місця	*Criminals exploited vulnerabilities of our company and stole our data.*
18	unintentional decisions	ненавмисні рішення	*They made some unintensional decisions that harmed our policy.*
19	to commit a cyber security crime	вчинити кібер-безпековий злочин	*He commited a cyber security crime and was sentenced.*
20	to brag	вихвалятися	*They bragged and didn't want to stop.*
21	to compete for something	конкурувати за щось	*Our company wants to compete for the first place in this field but we don't*

			have enough resources.
22	well-armed cyber army	добре озброєна кіберармія	*This country has a well-armed cyber army. We can't compete with them.*
23	to shut down national water supplies	припинити національне водопостача- ння	*They can shut down national water supplies but we need to prevent it.*
24	energy grids	енергетичні мережі	*Energy grids were hacked, so all cities have power cut.*
25	denial-of- service attacks	атаки для відмови в обслуговував- нні	*Cyber criminals organized denial-of-service-attacks to harm our customers.*
26	fishing scams	фішинг-афери	*I read about some fishing scams and was surprised how much information is available in the Internet.*
27	coughing and sneezing	кашель і чхання	*I had coughing and sneezing so that I couldn't start my work yesterday.*
28	to infect a cell	заразити клітину	*A cell was infected and ruined.*
29	to inject	впорскувати	*They injected medicine and were waiting for recovery.*
30	to replicate	тиражувати	*Criminals wanted to trick people. That's why they replicated fake leaflets and sent them throughout the world.*
31	executable program	виконувана програма	*The executable program was working well and no one saw the mistakes.*
32	deception	обман	*I found out that it was a total deception.*
33	disguised	замаскований	*That email was just a*

			disguised fishing scam.
34	security updates	оновлення безпеки	*I have installed all security updates and I am waiting for the result.*
35	explicit permission	явний дозвіл	*I got the explicit permission and I have all rights to get an access.*
36	to remotely control	дистанційно керувати	*They are remotely controlling all our computers. That's a disaster.*
37	botnet	ботнет	*I developed a botnet and tried to check it.*
38	to take down a website	«покласти» сайт	*Unfamiliar people took down a website and no option is available now.*
39	distributed denial of service	розподілена відмова в обслуговував-нні	*We got a distributed denial of service and stopped our partnership immediately.*
40	to overwhelm a website	перевантажи-ти вебсайт	*Criminals have already overwhelmed a website and it isn't working now.*
41	distributed	розподілений	*The data were distributed and became available immediately after that attack happened.*
42	to respond to requests	відповідати на запити	*I wanted to respond to requests but it wasn't possible because of a fishing scam.*
43	to hit with billions of requests	атакувати мільярдами запитів	*If they hit with billions of requests, our website will be taken down forever.*
44	overloaded	перевантаже-ний	*It has already been overloaded and none could*

			help.
45	to trick people	обманювати людей	*Those who trick people deserve the strictest punishment in the world.*
46	trustworthy email	надійна електронна пошта	*I got a trustworthy email yesterday but they didn't allow me to open it.*
47	login credentials	облікові дані для входу	*Last week I lost my login credentials and now I can't get an access.*
48	security bug	помилка безпеки	*They tried to fix a security bug but it didn't happen.*
49	to keep up	не відставати	*We need to keep up. Otherwise we can become loosers as a result.*

Vocabulary Appendix. Unit 2.1. DIGITAL FOOTPRINT

No.	Lexical unit	Translation	Use in a sentence
1	to contribute to something	сприяти чомусь	*IT specialists contribute to worldwide business.*
2	to be erased	бути стертим	*Nothing can be erased from the worldwide web.*
3	to adjust to something	пристосував-тися до чогось	*They want to adjust to new rules in a company.*
4	to keep in mind	мати на увазі	*We need to keep in mind the previous cyber attack.*
5	to make judgments	судити про щось	*Don't hurry up to make judgements. We need to think carefully before making any decisions.*
6	search engine	пошукова система	*My search engine isn't perfect as it sometimes works slowly.*
7	privacy settings	налаштування конфіденцій-ності	*My privacy settings were destroyed with a virus program.*
8	to modify	змінити	*I can't modify any privacy settings. Please, help me.*
9	to track the information	відстежувати інформацію	*There are programs that can track the information you look through in the Internet.*

Vocabulary Appendix. Unit 2.2. ELECTRONIC DOCUMENT WORKFLOW SOFTWARE

No.	Lexical unit	Translation	Use in a sentence
1	field data collection	збір даних на місці	*This software is the best for field data collection.*
2	on-premise storage	локальне зберігання	*This program is an option for on-premise data storage.*
3	worthwile	вартий	*His call was worthwile as he is a professional specialist in this field.*
4	approved	підтвердже-ний	*I would like to get approved results not amateur ones.*
5	input	введення	*Your data input is incorrect. Check login credentials and find the mistake.*
6	compliance	відповідність	*Check the compliance with up-to-date laws and orders.*
7	valuable asset	цінний актив	*He bought a valuable asset. We need to consult wit him.*
8	standout features	функції, що вирізняються	*This software has got standout features. That's why it is expensive.*
9	robust customization	надійне налаштування	*A robust customization is a key not to be tricked online.*
10	to tailor	витримувати у строгому стилі, шити	*If you don't like any program features, tailor it as you see.*
11	to incur	накликати на себе	*If you don't follow my advice, you will incur extra expenses. I'm not ready to pay for this.*
12	dedicated	віддана	*Our teamlead can*

			guarantee a dedicated support for everybody in our team.
13	scalability	масштабова-ність	*They just exaggerate the problem. It's scalability, not more.*
14	white-labeling	біле маркування	*Some software can be white-labeling.*
15	learning curve	крива навчальності	*This software has a learning curve.*
16	drag-and-drop interface	інтерфейс перетягував-ння	*Drag-and-drop interface is comfortable, isn't it?*
17	discrepancies	розбіжності	*I don't see discrepancies. Why should we doubt?*
18	template	шаблон	*Who could download a template?*
19	array	масив	*In this array of data I got lost.*
20	simplistic	спрощений	*I would like to get a simplictic option of this program.*
21	to assign	призначити	*Who assigned him as a manager?*
22	to spot bottlenecks	виявити вузькі місця	*He spotted bottlenecks and now is angry.*
23	assignee	право-наступник	*Who will be his assignee?*
24	automatically routed	автоматично маршрути зо-ваний	*All functions are automatically routed, don't worry.*
25	to facilitate	сприяти	*Design a program that could facilitate but not distract.*

Vocabulary Appendix. Unit 2.3. HEALTH INFORMATION TECHNOLOGY

No.	Lexical unit	Translation	Use in a sentence
1	significance	важливість	*Health IT has got a high significance in modern world.*
2	MRI scanners	МРТ-сканери	*MRI scanners could work only with up-to-date software.*
3	amidst	посеред	*There are so many programs amidst offered that I don't know which one to choose.*
4	destined	призначений	*Health information technology is destined to help people in medicine.*
5	maintenance	обслуговування	*I couldn't imagine that office maintenance could be so easy.*
6	to encompass	охоплювати	*His skills encomapass all the variety of necessary knowledge.*
7	to retrieve	виправляти	*Download a program to retrieve information.*
8	seamless	безперебійний	*This interface is comfortable and provides a seamless connection between a customer and a website.*
9	wearables	гаджети, які носять на тілі	*Patients can use wearables to keep in touch with their doctors.*
10	electronic health record (EHR)/	електронна медична книжка	*He forgot his EHR and can't visit any hospital now.*

	electronic medical record (EMR)	/електронна медична карта	
11	treatment history	історія лікування	*His treatment history isn't as simple as it seems. So, doctors need to consult.*
12	accurate	точний	*His forecast wasn't accurate last week. That's why he can change his decision.*
13	to eliminate	ліквідувати	*They need to eliminate all electronic health records in order to prevent clients from information leak.*
14	tedious	нудний	*His story was so tedious that I decided to go.*
15	to reduce	зменшувати	*IT specialists can reduce the risks but they need to work a lot for this.*
16	manual documentation	документація, заповнена вручну	*State hospitals still follow manual documentation that takes a lot of time and human resources.*
17	medical practice management software	програмне забезпечення для управління медичною практикою	*We developed medical practice management software, and now hospitals work better.*
18	to handle documents	обробляти документи	*This software can handle documents faster than ever before.*
19	to pertain	бути властивим	*This feature is pertaining to some programs that were developed last year.*
20	eligibility	перевірка	*We launched eligibility*

		придатності	*verification in order to check the mistakes.*
21	clerical tasks	канцелярські завдання	*They hate clerical tasks and always avoid them.*
22	medical inventory	медичний інвентар	*Medical inventory must be renewed as soon as possible.*
23	dispensed to patients	виданий пацієнту	*EMR that was dispensed to a patient wasn't checked by a doctor.*
24	cash flow	грошовий потік	*IT specialist can't control cash flow but they can increase the amount of money resources.*
25	e-prescribing software	програмне забезпечення для виписування електронних рецептів	*E-prescribing software is easy to use but expensive to install.*
26	effort	зусилля	*I don't need your efforts. Just leave me alone.*
27	legible prescriptions	розбірливі рецепти	*Doctors never give legible prescriptions.*
28	mix-up	плутанина	*I always see only a mix-up in his handwritings.*
29	misplacement	неправильне розташування	*GPS showed misplacement. That's why we got lost.*
30	remote patient monitoring (RPM)	віддалений моніторинг пацієнтів	*Health software can provide us with remote patient monitoring.*
31	telehealth	телемедицина	*Telehealth has been developing for 3 years.*
32	surveillance monitors	монітори спостереже-ння	*All surveillance monitors were broken because of a missile attack.*

33	coverage verification	зона дії	*Coverage verification of a wi-fi signal isn't as big as we expected.*
34	reimbursement	відшкодування	*All patients will get some reimbursement if they apply all necessary documents.*
35	ultimate goal	кінцева мета	*Our ultimate goal is to get new knowledge and experience new skills.*
36	to enhance	збільшувати	*If you want to enhance your working experience, try something new.*
37	explicit care guidelines	чіткі рекомендації по догляду	*That patient was given explicit care guidelines by a doctor. Don't worry.*
38	medical negligence	лікарська недбалість	*That surgery was caused with a medical negligence last week.*
39	to expand	поширювати	*The results of our investigation should be expanded and explained clearly.*
40	awareness	обізнаність	*Your awareness with this question seems to be strange.*
41	to empower	розширити можливості	*This software empowers to achieve more in this field. We even didn't expact such results.*
42	to sustain	підтримувати	*The program you offered sustains the process of business launching but can't work well.*
43	to unearth	розкривати	*The author would like to unearth that question but for this we need more time.*

44	seamlessly	поступово	*Seamlessly we started working more on this software and it worked.*
45	to unveil	оприлюднити	*They unveiled preparing tasks and now we have time to get ready with them.*
46	substantial	суттєвий	*This feature can become a substantial factor to choose the program or not.*

Vocabulary Appendix. Unit 3.1. WEBSITE DEVELOPMENT

No.	Lexical unit	Translation	Use in a sentence
1	to intend	мати намір	*I know what he intends and I want him to achieve his goals.*
2	a lucrative career	прибуткова кар'єра	*A lucrative career attracts a lot of people but not everyone is willing to work.*
3	HTML (Hypertext Markup Language)	мова розмітки гіпертексту	*I studied HTML last year. I'm a well-paid specialist now.*
4	CSS (Cascading Style Sheets)	каскадні таблиці стилів	*Who learned CSS? Who can help?*
5	CMS (content management systems)	системи управління контентом	*I started CMS course. It's really worthy.*
6	to vary	змінюватися	*Trends are varying every single day. Don't become a loser!*
7	overlap	перекриття, збігання в чомусь	*There is some overlap. However, the difference is more noticeable.*
8	to demand	домагатися	*They demand this service for free. Just do what they want.*
9	wireframes	каркаси	*I designed wireframes. Go on with your part of work.*
10	mockups	макети	*Who checked these mockups? It's ridiculous.*
11	front-end development	інтерфейсна розробка	*I have been working on front-end development since 2022.*

12	back-end development	бекенд-розробка	*And I would like to try some jobs in back-end development. Why not?*
13	full-stack development	розробка повного стека	*Specialists in full-stack development are priceless.*
14	solid understanding	тверде розуміння	*I have got a solid understanding who you are.*
15	frameworks	рамки	*My frameworks are easy to understand whereas yours are too overloaded.*
16	responsive	одержаний у відповідь	*Responsive comments are helpful but not the most important ones.*
17	versatility	універсальність	*Versatility of this website is incredible. I pay double price if you develop the same for our company.*
18	adept	експерт	*He is an adept. Just shut up and do what he wants.*
19	contentious	спірний	*This offer is rather contentious. That's why I doubt.*
20	defensive	захисний	*Defensive software wasn't installed last week. Why do you wonder now that you have got a virus?*
21	refined skills	вдосконалені навички	*Who needs my refined skills? Nobody pays more but gives work for two days ahead!*
22	to persist	наполягати	*I persist on my mockups. If not, I won't deal with this project at all.*
23	skillset	набір навичок	*His skillset is impressive. Let him show his work.*
24	aspiring	честолюбний	*I like aspiring web*

			developers. They motivate others.
25	advancement	просування	*His advancement needs a little bit more time. Please, wait and you'll see his new position in general management.*
26	to float towards a claim to fame later on	рухатися до оголошеного моменту слави	*He didn't want to float towards a claim to fame later on. He wanted everything here and now. Alas, it doesn't work like this.*
27	to dive in	занурюватися	*Who dives in full-stack development? Definitely. Nobody. Keep silence and just do what you know.*

Vocabulary Appendix. Unit 3.2. DIGITAL FARMING

No.	Lexical unit	Translation	Use in a sentence
1	to remain out	залишатися поза	*Some farmers can remain out of the progress in agriculture.*
2	to harness	використову-вати чиюсь силу	*They harness all power they have but it wasn't enough.*
3	unprecedented opportunities	безпрецеден-тні можливості	*Digital farming can provide us with unprecedented opportunities if we follow all given instructions.*
4	evolving challenges	виклики, що змінюються	*Evolving changes make us update all software but it's not a guarantee to achieve good results.*
5	weather patterns	погодні умови	*Weather patterns don't allow us to start plowing.*
6	sustainable harvests	стійкі врожаї	*Sustainable good harvests depend on weather patterns and digital farming as well.*
7	to enable	давати змогу	*Digital farming enables farmers to get better harvests.*
8	to draw insights	зробити уявлення	*These drones can draw insights how to grow plants.*
9	satellite imagery	супутникові знімки	*Satellite imagery can be useful in digital farming to help farmers analyze general soul health.*
10	in-season field health	стан поля під час сезону	*In-season field health is extremely significant for*

			getting high harvest indicators.
11	precisely	точно	*Nobody can assess the situation precisely.*
12	to plow	плужити	*Tractors plow the fields using GPS.*
13	to thrive	процвітати	*If you want to thrive, start digital farming.*
14	prescriptive agriculture	прескриптив-не землербство	*Prescriptive agriculture is a prospectus one as it follows accurate orders that are research results after deep investigating.*
15	to conserve the inputs	зберегти внесення	*In-field sensors can give information about organic substances to conserve inputs.*
16	to cut costs	скоротити витрати	*If you want to cut costs, use special programs to count your expenses.*
17	equipped	обладнаний	*Equipped spaces are the best places to concentrate on work.*
18	multispectral cameras	мульти-спектральні камери	*Multispectral cameras help farmers control plants' conditions.*
19	pests	шкідники	*Pests can harm plants' state and decrease the harvest.*
20	drought	посуха	*This drought impacts on the harvest every year. We can do nothing.*
21	naked eye	не-озброєне око	*It is visible even with a naked eye. Didn't you really notice this mistake?*
22	threat	загроза	*There is a threat to lose*

			almost all harvest.
23	precision application	точне застосування	*Precision application can support farmers but it won't save all plants without in-field sensors.*
24	thriving crops	процвітаючі культури	*There are thriving crops and it is better to plant these ones but not those you advised.*
25	proprietary digital technology	власна цифрова технологія	*Proprietary digital technology is developed according to our individual needs. It matches all our demands.*
26	soil conditions	ґрунтові умови	*Soil conditions are better this year than it was last year. Let's hope for better.*
27	moisture	вологість	*The moisture is low, use moisture sensors to improve the situation.*
28	nutrient levels	рівні поживних речовин	*Nutrient levels are increasing in the process of new software development.*
29	in-field sensors	польові датчики	*In-field sensors can feel and detect all changes in soil patterns.*
30	breakthroughs	прориви	*Extremely popular technologies are the breakthroughs of these days.*
31	to accelerate the pace and success	прискорити темп і успіх	*If you want to accelerate the pace and success, try to start your day earlier.*
32	plant breeding innovations	інновації в селекції рослин	*Plant breeding innovations can lead us to the biggest incomes we have ever had.*

33	genetic outcomes	генетичні наслідки	*Genetic outcomes impact on the character and human's appearance.*
34	robust data analytics platforms	надійні платформи аналізу даних	*Robust data analytics platforms work properly to provide customers with high-quality results.*
35	entire farming ecosystem	вся сільськогоспо дарська екосистема	*The entire farming ecosystem is characterized with different features dealing with soil and weather patterns, organic fertilizers etc.*
36	to usher	вводити	*Ushering innovations can become a breakthrough in farming field.*
37	real-time data analytics	аналіз даних у реальному часі	*Real-time data analytics is useful for making on-the-spot decisions to win the time and money.*
38	to sync across other devices	синхронізу-вати між іншими пристроями	*You can sync this program across other devices and don't follow all the instructions.*
39	density	щільність	*Density of this soil cover doesn't allow us to use only organic fertilizers.*
40	carbon emissions	викиди вуглецю	*Carbon emissions ruin our nature.*
41	leveraging innovation	використання інновацій	*Leveraging innovation causes progressive consequences we have been waiting so long.*
42	intricate data	складні дані	*Intricate data make the counting process more complicated than I have*

			expected.
43	to assess	оцінити	*To assess your data means to involve the resources we don't have.*
44	breed seeds	насіння певного виду	*Breed seeds are an expensive pleasure. So,we'll buy something cheaper.*
45	sustainability	стійкість	*What motivates people is a positive sustainability at wortk.*
46	overhaul	ретельний огляд	*The only thing that can help this company is an overhaul. However, nobody will agree with that.*
47	org chart	організаційна діаграма	*This org chart demonstrates all risks and warning we should consider.*
48	UX (user experience) researcher	дослідник досвіду користувача	*UX researcher can help us with sales. Let's hire him.*

Vocabulary Appendix. Unit 3.3. BUILDING INFORMATION MODELING

No.	Lexical unit	Translation	Use in a sentence
1	building information modeling (BIM)	інформаційне моделювання будівель (IMБ)	*Nowadays BIM is becoming more and more popular step for successful owners.*
2	architecture, engineering and construction (AEC) industry	архітектурно-інженерно-будівельна (AIБ) галузь	*AEC industry is growing up even if the price for apartments is extremely high.*
3	holistic process	цілісний процес	*IT philosophy considers team's work as a holistic process of consolidation and partnership.*
4	built asset	побудований актив	*Our built asset can't be lost because of your craziness.*
5	to stack up	складати вгору	*Stop stacking up these folders. Otherwise they will fall down.*
6	global revenue	глобальний дохід	*Global revenue depends on market state and currency exchange.*
7	to capture	привабити	*How to capture new customers?*
8	to enhance	покращити	*If you want to enhance this interface, think of new software.*
9	accuracy	точність	*Accuracy is the most important thing while coding.*
10	mechanical,	механічний,	*MEP modeling can ease*

	electrical and plumbing (MEP)	електричний та сантехнічний (МЕС)	*our life and help avoid mistakes we could make.*
11	workflow	робочий процес	*Workflow is running as ususal. What's the matter?*
12	scalable	масштабова-ний	*Scalable projects need more attention and control.*
13	intero-perability	сумісність	*Software interoperability is a huge problem nowadays.*
14	scope	сфера застосування	*There are different scopes to use BMI.*
15	twin software	програмне забезпечення-двійник	*Twin software is cheaper but not always reliable.*
16	digital replica	цифрова копія	*Don't download this digital replica. It can't be approved.*
17	HVAR (heating, ventilation, and air conditioning)	ОВК (опалення, вентиляція та кондиціо-нування)	*HVAR is what we demand and what our customers want to see.*
18	immersive	захоплюючий	*You story was so immersive that I forgot about the time.*
19	climate resilience analysis	аналіз кліматичної стійкості	*Climate resilience analysis gives us a possibility to predict natural disasters.*
20	digital twin revenue	дохід від цифрового двійника	*Digital twin revenue can help smaller companies.*
21	project bidding	тендер на проект	*Project bidding is a risky thing but quite possible.*
22	discrete industries	дискретні галузі	*Discrete industries need more attention and research.*

23	predictive maintenance	прогнозоване обслугову-вання	*Predictive maintenance will manage customers' problems.*
24	asset performance management	управління ефективністю активів	*Asset performance management is an obligatory part of any company management.*
25	actuator	датчик, привід руху	*This actuator doesn't work. We should repair it.*
26	to hinder	перешко-джати	*Nobody can hinder our acitivites.*
27	to restain	стримувати	*If there is something that restains you, just give up.*
28	ambiguous	неоднозначний	*Your words are ambiguous, explain what you mean.*
29	mandate	доручення, наказ	*Have you already seen their mandate?*
30	mandatory	обов'язковий	*Their order is mandatory. Stop complaining.*
31	sense ideas	раціональні ідеї	*I have never heard any sense ideas from him.*
32	vast	величезний	*A vast variety of programs are sold everywhere.*
33	dazzling technologies	приголомш-ливі технології	*I have always wanted to deal with dazzling technologies.*
34	pun intended	каламбур	*That pun intented was a ridiculous thing.*
35	to assume	припустити	*I assume they won't help us.*
36	solid foundation	міцна основа	*Your knowledge is a solid foundation for getting a new position.*
37	subterfuge	підступ	*His subterfuge is nasty. Don't forgive him.*

38	to undermine relationship	підірвати стосунки	*Your behavior will undermine your relationship with mum.*
39	to reinforce	зміцнювати	*If you reinforce your relations with colleagues, you will be able to get their help.*
40	boundaries	межі	*Don't break their boundaries. It's a risky thing.*
41	veto power	право вето	*You have a veto power. However, it would be better not to use it.*
42	consumptive	споживчий	*Your consumptive interests can ruin all our plans.*
43	anchor	якір	*You are my anchor in this city.*
44	restrictive scenario	обмежуваль-ний сценарій	*This restrictive scenario can limit his rights.*
45	inquirer	запитувач	*An inquirer applies for a meeting.*
46	AWS- Amazon Web Services	АВС- веб-сервіси «Amazon»	*I have never used AWS. Let's try.*
47	AES- Advanced Encryption System	РСШ - розширена система шифрування	*AES can protect our data from cyberattacks.*
48	AP - Access Point	ТД - точка доступу	*Who could block our AP?*
49	BYOD- Bring Your Own Device	ПСВП - принесіть свій власний пристрій	*This combany has one clear requirement to bring your won device called BYOD.*

50	CLI- Command Line Interface	ІКР - інтерфейс командного рядка	*I can't code this CLI.*
51	DDoS- Distributed Denial Of Services	РВвО - розподілена відмова в обслуговува- нні	*After a cyberattack our website got a DDoS.*
52	FTP- File Transfer Protocol	ППФ - протокол передачі файлів	*This TP isn't accurate. Check it once more.*
53	IP- Internet Protocol	ІП - Інтернет- протокол	*I forgot IP. Please, help me.*
54	ISP- Internet Service Provider	ІПП - Інтернет- провайдер послуг	*I want to change our ISP.*
55	LAN- Local Area Network	ЛМ - локальна мережа	*LAN isn't available. Do at least something.*
56	MDM- Mobile Device Management	УМП - управління мобільними пристроями	*I studied MDM and I can manage all mobile devices.*
57	MFA- Multi- Factor Authentication	БФА – багатофакто- рна автентифіка- ція	*Install MFA to save your private data.*
58	RDP- Remote Desktop Protocol	ПВРС - протокол віддаленого робочого	*Send your RDP so that I could get the access to your desktop.*

		столу	
59	SSO- Single Sign-on	ЄВ - єдиний вхід	*We have SSO. Nobody could enter our database.*
60	API - Application Programming Interface	ІПП - інтерфейс прикладного програмува-ння	*API is easy to use and bright to see all the details.*

Vocabulary Appendix. Unit 4.3. INTELLIGENT CAR TECHNOLOGY

No.	Lexical unit	Translation	Use in a sentence
1	advanced connectivity	розширене підключення	*Advanced connectivity of an intelligent car makes it possible to interact with different devices simultaneously.*
2	to blend into	змішатися в	*If you want to blend into the car crown, buy usual petrol car. If not, buy an intelligent electric car.*
3	tech-savvy companions	технічно підковані компаньйони	*Our tech0savvy companions will advise the best options for such big money.*
4	to buckle up	пристібати ремінь безпеки	*You didn't buckle up, why do you argue with a policeman?*
5	to delve into	заглибитися в	*Try to delve into electric car theory. You will get all the ideas.*
6	techy twist	технічний поворот	*Such a techy twist! I wonder car progress.*
7	to adjust to	пристосуватися до	*I want to adjust to new rules. However, it isn't so easy.*
8	ultimately	зрештою	*Ultimately, I decided to write that code.*
9	to squeeze into	втиснутися в	*He squeezed into that parking place yesterday and his car is still there.*
10	to stick	тинятися	*He sticks around and does*

	around	поблизу	*nothing.*
11	to boost fuel efficiency	підвищувати паливну ефективність	*Some programs can boost fuel efficiency in order to save petrol.*
12	sleek design	елегантний дизайн	*Tesla has a sleek design and looks great.*
13	plethora of sensors	безліч датчиків	*This car has plethora of sensors. How to drive it?*
14	to avoid congestion	уникнути заторів	*If you want to avoid congestion, turn right and take the second exit at the roundabout.*
15	lane-keeping assist	система підтримки смуги руху	*This lane-keeping assist helps intelligent cars drive without anybody inside.*
16	falcon-wing doors	соколині двері	*I don't like falcon-wing doors in these cars. Is it possible to change their design?*
17	SUV (sport utility vehicle)	СПА – спортивний практичний автомобіль	*I want to buy a SUV. Could you help me choose the best one?*
18	intuitive infotainment system	інтуїтивно зрозуміла інформаційно-розважальна система	*Intuitive infotainment system is a great invention but it needs more time to coreect some mistakes.*
19	advanced adaptive suspension	вдосконалена адаптивна підвіска	*Advanced adaptive suspension provides this car with an excellent driving mode.*
20	ultimate comfort	максималь-ний комфорт	*Your ultimate comfort depends on the car you drive.*

21	top-tier driver assistance tech	техніка допомоги водієві найвищого рівня	*Top-tier driver assistance tech can give the chance to drive without any efforts.*
22	pinnacle	вершина	*This is a pinnacle of information technology.*
23	dashboard	приладова панель	*I can't see anything! This dashboard is dimmed.*
24	EV (electric vehicle) market	ринок електро-мобілів	*EV market is growing up every moment.*
25	luxury amenities	розкішні зручності	*Those luxury amenities can be available not only at the hotels but even in your car.*
26	plug-and-play operation	«ввімкни і грай (працюй)» операція	*Plug-and-play operation saves our time.*
27	mishaps	невдачі	*Forget all your mishaps and try to work harder.*
28	to align with	узгодити з	*Let's align it with our partners.*
29	telematics	телематика	*I studied telematics and I wonder how deep this field is.*

GRAMMAR APPENDICES
Grammar Appendix. Unit 1. MODAL VERBS

No.	Theory	Use
1	can (physical ability, someone's allowance, possibility/im-possibility of any action in the past, polite request)	*They can code faster than anybody before.* *You can use my laptop.* *I could have studied IT better at school.* *He can't code. He has never studied it.* *Could you help me with picture design, please?*
2	may (probability of any action in the present/past with or without doubt, someone's allowance or request)	*He may/might be at home. I'm not sure.* *He may work from home. However, I don't find it a good idea.* *You may do whatever you want, just increase the income.* *May I start my work?*
3	must (necessity of something to be done, strong recommendation, suggestion)	*I must develop this software. It's my work.* *You must play this game. Players are amazing.* *She must be sick after sea trip. Who knows?*
4	have to (necessity of something to be done for common cases)	*IT-specialists have to develop new products. If not, who are they then?*
5	should (someone's advice or recommendation to do something)	*You should learn how to be more patient that you are now if you want to work for us.*
6	shall (suggesting any help)	*Shall I help you?*

7	would like to (someone's wish)	*Would you like to go with me?*
8	would mind (polite request)	*Would you mind going there with me?*
9	had better, would rather (someone's preference or advice)	*You look bad; you had better go to the doctor.* *I would rather stay at the hotel.*
10	need (have the necessity to do something)	*I need to study more. That's my decision.*

Grammar Appendix. Unit 1.1. DEFINING AND NON-DEFINING CLAUSES

No.	Theory	Use
1	defining relative clause (gives necessary information, comes after the noun, it denotes using a relative pronoun *who, that, which, whose, whom*)	*They are the students who we need to teach.*
2	non-defining relative clause (gives extra unnecessary information; in writing we use commas for these clauses and pronouns *who, which, whose, whom* but not *that*)	*My students, who are from Italy, have already passed the exam.*

Grammar Appendix. Unit 1.2. PRESENT AND PAST PARTICIPLES

No.	Theory	Use
1	Present Participle is used as an adjective and derivated from a verb adding -ing affix.	*Growing progress is an unbelievable possibility to succeed in this field.*
2	Past Participle is used as an adjective and derivated from a verb adding -ed, -en, -d, -t, or -n affix.	*Chosen career will take a lot of time but it is worth doing.*

Grammar Appendix. Unit 1.2. QUESTIONS TYPES

No.	Theory	Use
1	General Question: Auxiliary Verb + Subject + Predicate + Other Part of the Sentence?	*Do you mind launching your business in IT?*
2	Special Question: Special Question Word + Auxiliary Verb + Subject + Predicate + Other Part of the Sentence?	*Why do you mind launching your business in IT?*
3	Alternative Question: Auxiliary Verb + Subject + Predicate + OR + Predicate + Other Part of the Sentence?	*Do you mind or prefer launcing your business in IT?*
4	Tag Question: Subject + Predicate + Other Parts of the Sentence, Auxiliary Verb + NOT + Subject in the Form of Pronoun? Subject + Auxiliary Verb + NOT + Predicate + Other Parts of the	*You mind launching your business in iT, don't you? You don't mind launching your business in IT, do you?*

	Sentence, Auxiliary Verb + Subject in the Form of Pronoun?	
5	Questions with WHO: WHO + Predicate + Other Parts of the Sentence? (for Present Simple Tense and Past Simple Tense) WHO + Auxiliary Verb + Predicate + Other Parts of the Sentence? (for other Tenses)	*Who minds launching business in IT?* *Who will mind launching business in IT?*

Grammar Appendix. Unit 1.3. THE IMPERATIVE

No.	Theory	Use
1	The Imperative is used to give orders or instructions and formed with a verb without any pronouns or endings. For a negative form use auxiliary verb don't + verb.	*Use new software if you want to be the first in this skill race.* *Don't use old software if you want to be the first in this skill race.*

Grammar Appendix. Unit 2.1. PAST PERFECT TENSE

No.	Theory	Use
1	Past Perfect Tense is used to denote past action that happened before another past action. Subject + Auxiliary Verb (HAD) + Predicate (Verb + -ED ending OR The Third Form of a Verb) + Other Parts of the Sentence. Word markers: before, by, by the time, when, after etc.	*We had already downloaded new software before you called.*

Grammar Appendix. Unit 2.3. PASSIVE VOICE

No.	Theory	Use
1	Passive Voice is used when we stress on the person or object that experience any action rather than the doer of that action or in case when that doer isn't known or important.	
	Passive Voice Formation:	
	Present Simple Tense: Subject + Auxiliary Verb (AM,IS,ARE) + Predicate (Verb + -ED ending OR The Third Form of a Verb)	*This program is downloaded every day.*
	Present Continuous Tense: Subject + Auxiliary Verb (AM,IS,ARE + BEING) + Predicate (Verb + -ED ending OR The Third Form of a Verb)	*This program is being downloaded at the moment.*
	Present Perfect Tense: Subject + Auxiliary Verb (HAVE/HAS + BEEN) + Predicate (Verb + -ED ending OR The Third Form of a Verb)	*This program has been already downloaded.*
	Past Simple Tense: Subject + Auxiliary Verb (WAS/WERE) + Predicate (Verb + -ED ending OR The Third Form of a Verb)	*This program was downloaded yesterday.*
	Past Continuous Tense: Subject + Auxiliary Verb (WAS/WERE + BEING) + Predicate (Verb + -ED ending OR The Third Form of a Verb)	*This program was being downloaded two hours yesterday.*
	Past Perfect Tense: Subject + Auxiliary Verb (HAD + BEEN) + Predicate (Verb + -ED	*This program had been downloaeded by*

	ending OR The Third Form of a Verb) Future Simple Tense: Subject + Auxiliary Verb (WILL + BE) + Predicate (Verb + -ED ending OR The Third Form of a Verb) Future Perfect Tense: Subject + Auxiliary Verb (Auxiliary VERB (WILL HAVE) + BEEN)) + Predicate (Verb + -ED ending OR The Third Form of a Verb) Modal Verbs: Subject + Modal Verb + BE + Predicate (Verb + -ED ending OR The Third Form of a Verb)	*the time you came.* *This program will be downloaded. I promise.* *This program will have been downloaded before you come.* *This program should be downloaded.*

Grammar Appendix. Unit 3.1. PRESENT SIMPLE TENSE AND PRESENT CONTINUOUS TENSE

No.	Theory	Use
1	Present Simple Tense is used to denote regular actions, daily routines, timetables, laws of nature, sports commentaries, instructions etc. Word markers: *always, usually, seldom, rarely, sometimes, often, never*. Present Simple Tense Formation 1. Affirmative sentence: Subject + Predicate + Other parts of the Sentence (+ S(ES) Ending to a predicate when a subject is presented with *he,she,it* pronouns) 2. Negative sentence Subject + Auxiliary Verb (DO/DOES) + NOT + Predicate + Other parts of the Sentence. 3. Question Auxiliary Verb (DO/DOES) + Subject + Predicate + Other parts of the Sentence?	*She always uses this software.* *They don't use any tools in their daily routine.* *Do you use any special program for losing this problem?*
2	Present Continuous Tense is used to denote actions that are happening at the moment of speaking or taking place within limited time, happening regularly but irritating others, arranged to do in the near future. Word markers: now, at the moment, at present, today, tonight etc. Present Continuous Tense Formation 1. Affirmative sentence: Subject + Auxiliary Verb (AM/IS/ARE) Predicate + -ING ending + Other parts	*She is working on this project these*

of the Sentence. 2. Negative sentence Subject + Auxiliary Verb (AM/IS/ARE) + NOT + Predicate + -ING ending + Other parts of the Sentence. 3. Question Auxiliary Verb (AM/IS/ARE) + Subject + Predicate + ING ending + Other parts of the Sentence? Action verbs denote actions whereas non-action verbs denote senses, feelings, perception etc. (like, love, hate, dislike, enjoy, prefer, hear, smell, taste, feel, know, believe, realise, understand, forget, notice, think, seem, see, include, contain, belong, fit, need, matter, cost, mean, own, want, owe, have) and can't be used in Present Countinuous Tense except of cases when they change their meanings: think (believe or consider), taste (have a delicious flavor or taste the flavor of something), see (perceive with eyes or understand or meet), look (appear or direct eyes), smell (have a nice smell or sniff), feel (have a texture of something or touch), have (possess or take a shower), weigh (have a weight of something or measure how heave something is), fit (to be the right size or put in), appear (seem or take part in something), be (have a character or behave in a temporary situation).	*days.* *They aren't developing any software now.* *Are you going to the gaming show now?* *I think they will help us – I am thinking about a new car.* *This salad tastes good – Who tastes the food in this house?* *I can see your mistakes – I see what you say – I'm seeing you later.* *It looks as a big disaster – He is looking out of the window.* *This soup smells nice – I'm smelling this soup.* *It feels like leather – She's feeling baby's skin.* *He has a house – He is having a shower now.* *It weighs 1 kilo – He is weighing this*

		package.
		This skirt fits you –
		They are fitting new
		doors.
		She appears to be a
		nice girl – They are
		appearing in a new
		play.
		We are polite – He
		is being polite but
		he is usually rude.

Grammar Appendix. Unit 3.3. CONDITIONALS

No.	Theory	Use
1	Zero Conditional Sentence is used to denote situations that are truth (laws and rules). Sero Conditional Formation: If + Present Simple tense, Present Simple Tense	*It it rains, the road is wet.*
2	The First Conditional Sentence is used to denote situations that are possible in the future or present. First Conditional Formation: If + Present Simple Tense, Future Somple Tense	*If I have time, I will help you.*
3	The Second Conditional Sentence is used to denote siturations that are imposdsible in reality. Second Conditional Formation: If + Past Simple Tense, Subject + Auxiliary Verb (WOULD/COULD) + Predicate	*If I had time, I would help you.*
4	The Third Conditional Sentence is used to denote imaginary situations in the past. Third Conditional Formation: If + Past Perfect Tense, Subject + WOULD/COULD/ MIGHT + Perfect Infinitive	*If they had arrived earlier, they could have rescued more people.*

Grammar Appendix. Unit 4.1. USED TO, GET USED TO, BE USED TO

No.	Theory	Use
1	Construction *used to + verb* denotes the actions we did in the past but no longer do it	*I used to play football when I was younger.*
2	Construcion *get used to + verb + ing ending* denotes the actions we have started doing and are in the process of getting a new habit	*I am getting used to developing new cybersecurity software.*
3	Construction *be used to + verb + ing ending* denotes the actions we are accustomed to doing	*We are used to coding fast and effectively.*

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