

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
Житомирський державний університет імені Івана Франка

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Посібник-практикум для студентів
English for Students of Digital Technologies

Житомир - 2026

Рекомендовано до друку рішенням Вченої ради Житомирського державного університету імені Івана Франка (протокол №12 , від 26 червня 2026 року.)

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Кулак В. І., Литньова Т. В., Українець А. І. English for Students of Digital Technologies Посібник-практикум. Житомир : Вид-во ЖДУ ім. І. Франка, 2026. 84 с.

Посібник-практикум «English for Students of Digital Technologies» призначений для студентів спеціальностей, пов'язаних з інформаційними технологіями, цифровими технологіями та комп'ютерними науками. Видання спрямоване на формування та розвиток іншомовної комунікативної компетентності, необхідної для професійного спілкування у сфері цифрових технологій. Посібник містить тематичні тексти, лексичні та граматичні вправи, завдання для розвитку навичок читання, аудіювання, письма та усного мовлення. Навчальний матеріал охоплює актуальні теми, пов'язані з інформаційними системами, програмуванням, штучним інтелектом, кібербезпекою, цифровими комунікаціями та сучасними технологічними тенденціями. Видання може бути використане під час практичних занять, для самостійної роботи студентів, а також для підготовки до поточного та підсумкового контролю знань з англійської мови професійного спрямування.

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Вступ

У сучасному світі цифрові технології стали невід'ємною складовою професійної діяльності, освіти та повсякденного життя. Інформаційні системи, програмування, штучний інтелект, кібербезпека, хмарні сервіси та цифрові комунікації стрімко розвиваються, формуючи нові вимоги до фахівців у галузі інформаційних та цифрових технологій. Однією з ключових компетентностей сучасного спеціаліста є володіння англійською мовою, яка виступає міжнародною мовою науки, технологій та професійного спілкування.

Посібник-практикум «English for Students of Digital Technologies» розроблений з метою формування та розвитку іншомовної комунікативної компетентності студентів спеціальностей, пов'язаних із цифровими технологіями. Видання спрямоване на поєднання мовної підготовки з професійною тематикою, що дозволяє студентам не лише вдосконалювати знання англійської мови, а й розширювати професійний словниковий запас та навички спілкування у сфері ІТ.

Навчальний матеріал посібника охоплює актуальні теми, пов'язані з інформаційними технологіями, цифровими платформами, програмуванням, аналізом даних, кібербезпекою та інноваційними технологічними рішеннями. До кожної теми включено тексти для читання, лексичні та граматичні вправи, завдання для розвитку навичок аудіювання, письма та усного мовлення, а також практичні комунікативні ситуації, наближені до реальних умов професійної діяльності.

Особлива увага приділяється розвитку таких умінь, як:

- a. розуміння професійно орієнтованих текстів англійською мовою;
- b. використання спеціалізованої лексики у професійному спілкуванні;
- c. ведення діалогів, презентацій та обговорень на теми цифрових технологій;
- d. написання електронних листів, звітів, описів проєктів та іншої професійної документації;
- e. застосування граматичних структур у контексті професійної комунікації.

Посібник може бути використаний під час практичних занять, для організації самостійної роботи студентів, а також для підготовки до поточного та підсумкового контролю знань. Матеріали видання сприяють підвищенню мотивації до вивчення англійської мови та формуванню готовності студентів до професійної діяльності в умовах глобалізованого цифрового середовища.

TEMA 1. Family and Relationships

Grammar Focus: Present Simple vs. Present Continuous (State Verbs in Digital Contexts).

Vocabulary: immediate family, extended family, upbringing, sibling rivalry, digital boundaries, screen time, tech-savvy parents, generational divide, family values, interpersonal conflict.

Reading Text: Family Dynamics in the Digital Age

The modern family structure is undergoing a significant transformation due to the rapid integration of digital technologies into daily routines. While traditional family values like mutual support, open communication, and shared quality time remain foundational, the way technical-vocational educators analyze family dynamics now includes digital boundaries.

Today's tech-savvy parents often struggle to manage their children's screen time, which frequently leads to modern variations of sibling rivalry over digital devices or interactive gaming consoles. Moreover, a noticeable generational divide emerges when older members of the extended family try to understand the remote learning or remote working habits of younger generations.

Social researchers emphasize that immediate family members must establish healthy digital habits during a child's early upbringing. If parents fail to map out digital rules, interpersonal conflicts inevitably arise. In the context of professional education in digital technologies, future instructors need to comprehend these shifting home environments,

as a student's academic performance is deeply interconnected with their home relationships and digital wellbeing.

Task 1. Vocabulary & Context Clues

*Fill in the blanks with the correct words: **upbringing, tech-savvy, screen, extended, immediate, divide, rivalry, boundaries, values, conflict, habits, relationships, dynamics, digital, structures.***

- 1) My _____ family consists of my parents, my younger sister, and our golden retriever.
- 2) During our summer holidays, we usually visit our _____ family in the countryside.
- 3) Strict digital _____ help children understand when to turn off their mobile phones.
- 4) Modern _____ parents utilize tracking applications to monitor their kids' internet use.
- 5) Excessive _____ time often causes headaches and reduces physical activity among teenagers.
- 6) The deep generational _____ becomes obvious when grandparents try to use modern social media platforms.
- 7) Psychological studies show that sibling _____ sometimes increases when kids share a single computer.
- 8) A healthy _____ requires a careful balance between outdoor games and educational software.
- 9) Traditional family _____ like honesty and respect are taught during early childhood.
- 10) Constant disagreements over internet rules can trigger intense interpersonal _____ within the household.

- 11) Educational instructors analyze family _____ to understand why some students feel isolated at home.
- 12) Our unique family _____ are changing because we now communicate via group chat apps.
- 13) Her creative software project helps families establish positive digital interaction _____.
- 14) Diverse family _____ require adaptable educational approaches from digital technology teachers.
- 15) Successful interpersonal _____ depend heavily on active listening and emotional intelligence.

Task 2. Grammar Focus: Present Simple vs. Present Continuous

*Put the verbs in brackets into the **Present Simple** or **Present Continuous** form.*

- 1) My tech-savvy father _____ (configure) our new home router at this very moment.
- 2) Educational researchers _____ (believe) that digital boundaries protect children from online fatigue.
- 3) Look! The children _____ (argue) about whose turn it is to use the interactive tablet.
- 4) Our extended family usually _____ (gather) together for Thanksgiving dinner every November.
- 5) Right now, my sister _____ (design) a digital photo album for our grandmother's birthday.
- 6) I _____ (understand) your point of view regarding excessive daily screen time.
- 7) Dr. Green _____ (analyze) family communication dynamics in his new textbook this semester.

- 8) My brother always _____ (forget) to plug in the laptop after he finishes playing.
- 9) At present, we _____ (experience) minor interpersonal conflicts due to remote working schedules.
- 10) The school counselor _____ (know) how a difficult upbringing affects student performance.
- 11) Why _____ you _____ (stare) at your smartphone while your mother is talking to you?
- 12) This software platform _____ (belong) to my uncle's digital educational startup company.
- 13) Generation Z _____ (prefer) text messaging over traditional voice calls nowadays.
- 14) My parents _____ (try) to reduce their screen time by reading printed books tonight.
- 15) Our digital literacy teacher _____ (own) three specialized certifications in educational psychology.

Task 3. Professional Translation

Translate the following sentences into English using the target vocabulary and correct present tenses.

- 1) Моя найближча родина (immediate family) зараз обговорює нові правила використання гаджетів.
- 2) Мій брат завжди допомагає (always helps) мені налаштовувати комп'ютерні програми вечорами.
- 3) Подивіться! Наші батьки вчаться (are learning) користуватися новою освітньою платформою.
- 4) Я вважаю (I believe), що надмірний екранний час шкодить психологічному розвитку дітей.

- 5) Наразі ми досліджуємо (are researching), як цифровий розрив впливає на стосунки в родині.
- 6) Його виховання (upbringing) допомагає йому швидко вирішувати міжособистісні конфлікти.
- 7) Сучасні підлітки проводять (spend) надто багато часу в соціальних мережах щодня.
- 8) Технічно підковані батьки (Tech-savvy parents) зазвичай контролюють завантаження додатків.
- 9) Цей цифровий планшет зараз належить (belongs to) моїй молодшій сестрі.
- 10) Чому ти розмовляєш (are talking) по телефону під час сімейної вечері прямо зараз?
- 11) Наша велика родина (extended family) не часто збирається разом через великі відстані.
- 12) Моя мати розробляє (is designing) веб-сайт для нашого сімейного бізнесу цього тижня.
- 13) Суперництво між братами і сестрами (Sibling rivalry) часто зникає у дорослому віці.
- 14) Я знаю (I know), що традиційні сімейні цінності є важливими для майбутніх педагогів.
- 15) Майбутні викладачі цифрових технологій зараз аналізують (are analyzing) поведінку студентів.

Task 4. Error Correction (Proofreading)

Identify and correct one error in each sentence (look for tense misuses, dynamic/stative verb errors, or vocabulary slips).

- 1) My immediate family is owning a large collection of old desktop computers and electronics.

- 2) Look! The tech-savvy parents configure the digital filters on their son's smartphone.
- 3) I am believing that healthy family values help students overcome academic obstacles easily.
- 4) My sibling rivalry is always bothering me when we play online video games together.
- 5) Right now, our extended family gathers in the living room to watch a digital documentary.
- 6) This expensive interactive tablet is belonging to the university digital education department.
- 7) Why are you constantly forget to charge the family laptop after your online classes?
- 8) At present, my sister is preferring digital illustrations over traditional oil painting techniques.
- 9) The generational divide causes frequently misunderstandings during traditional holiday dinners.
- 10) I am knowing the exact definition of interpersonal conflict according to our textbook.
- 11) Listen! My cousins argue about the screen time limitations in the next room.
- 12) Our digital upbringing teacher is needing a new laptop to complete her master thesis.
- 13) Every weekend, my father is testing new smart home devices with his immediate family.
- 14) The school principal is seeing my parents in his office at this very moment.
- 15) Teenagers are generally wanting more privacy on their personal digital cloud storage accounts.

Task 5. Sentence Transformation & Digital Synthesis

Rewrite or combine the sentences using the specific prompts in brackets.

- 1) My father works on our smart home server right now. It is his current activity. (Use *Present Continuous*)
- 2) I have a clear understanding of your family values. (Rewrite using the verb *understand*)
- 3) Tech-savvy parents set digital boundaries. This is their habitual behavior. (Use *Present Simple*)
- 4) My brother is downloading a massive educational video game at this moment. (Turn into a *Negative sentence*)
- 5) Children spend five hours online. This routinely triggers sibling rivalry. (Combine using *frequently causes*)
- 6) Is that interactive smartphone your personal property, Tom? (Rewrite using *belong to*)
- 7) We explore different family structures in our digital pedagogy class this week. (Use *Present Continuous*)
- 8) The instructor recognizes the negative impacts of excessive screen time. (Turn into a *Yes/No question*)
- 9) The generational divide exists. It is a permanent sociological fact. (Use *Present Simple*)
- 10) Why do you look at the digital router configuration right now? (Correct the tense error)
- 11) My extended family does not possess a shared cloud photo album yet. (Rewrite using *not own*)
- 12) The mother monitors her daughter's digital habits. It happens every evening. (Use *Present Simple*)
- 13) We are currently experiencing an interpersonal conflict. (Rewrite using *have* as a stative verb)

- 14) Look! The teacher explains the importance of an affectionate upbringing to the parents. (Use *Present Continuous*)
- 15) I think that remote learning requires strong domestic discipline. (Rewrite using *believe*)

TEMA 2. Friends and Neighbours

Grammar Focus: Past Simple vs. Used to / Would (Describing Past Habits and Digital Beginnings).

Vocabulary: acquaintance, close confidant, mutual friend, tech community, digital neighborhood, block party, supportive neighbor, peer pressure, offline interaction, lifelong friendship.

Reading Text: Redefining Companionship in a Networked Society

Before the internet reshaped our daily communication protocols, building a lifelong friendship required physical proximity and constant offline interaction. People used to gather at local block parties, and having a supportive neighbor meant having someone who would help you fix your mechanical tools or look after your house.

However, for students specializing in digital technologies, the concept of a neighborhood now extends far beyond physical streets into the digital neighborhood. Today, a mutual friend might live on another continent, and an individual's tech community often serves as their primary circle of support.

While a simple acquaintance can be easily made by clicking a "follow" button on a social network, finding a close confidant requires deeper trust.

Furthermore, modern youth must navigate complex peer pressure within digital chatrooms, where virtual trends often dominate.

Historically, educators noticed that students who balanced online gaming groups with local offline friendships developed superior emotional intelligence. Understanding these shifting social networks helps digital-era teachers foster collaborative learning environments for their pupils.

Task 1. Vocabulary & Context Clues

*Fill in the blanks with the correct words: **acquaintances, confidant, mutual, community, neighborhood, party, neighbor, pressure, offline, friendship, interaction, circles, networks, peers, support.***

- 1) Alex is not a total stranger; he is a helpful _____ friend from our university IT club.
- 2) When my laptop crashed last winter, a supportive _____ lent me his spare monitor.
- 3) We used to host a lively block _____ every summer to welcome new families to our street.
- 4) Spending time in nature promotes healthy _____ interaction away from bright computer monitors.
- 5) In high school, I had many casual _____, but only two truly close friends.
- 6) Mary is my close _____; I can share all my personal digital projects and secrets with her.
- 7) Joining a global tech _____ allows young programmers to share open-source code scripts.
- 8) Dealing with online peer _____ can be challenging for first-year university undergraduates.

- 9) Our digital _____ includes local forums where residents report internet connection issues.
- 10) Trust, shared interests, and mutual respect are essential for building a lifelong _____.
- 11) Regular face-to-face _____ helps digital technology students develop vital communication skills.
- 12) He received incredible technical _____ from his online gaming group during the coding marathon.
- 13) Social _____ like LinkedIn help professionals expand their network of industry contacts.
- 14) It is important to treat your classmates and _____ with professional respect in the laboratory.
- 15) Her narrow social _____ expanded significantly after she enrolled in the digital arts academy.

Task 2. Grammar Focus: Past Simple vs. Used to / Would

*Complete the sentences using **Past Simple**, **Used to**, or **Would**. (Use **would** for past actions/routines where possible; use **used to** for past states).*

- 1) When I was a child, we _____ (not have) high-speed optical fiber internet in our neighborhood.
- 2) Every Friday afternoon, my childhood friends _____ (gather) in the yard to play football.
- 3) Last night, my supportive neighbor _____ (help) me fix the power supply unit of my PC.
- 4) I _____ (think) that making digital acquaintances was easier than meeting people offline.

- 5) Before the digital era, people _____ (write) long letters to their overseas friends by hand.
- 6) In 2018, our local tech community _____ (organize) its very first outdoor coding exhibition.
- 7) Mary _____ (be) a close confidant of mine before she moved to another computer academy.
- 8) Whenever we faced peer pressure, our high school mentor _____ (give) us excellent advice.
- 9) Two days ago, a mutual friend _____ (send) me an invitation to join a professional network.
- 10) We _____ (live) in a very quiet digital neighborhood before the heavy server hub was built nearby.
- 11) During my school days, I _____ (spend) hours tinkering with old electronic radios in the garage.
- 12) The local youth association _____ (arrange) a fantastic block party last Saturday evening.
- 13) As a student, Alex _____ (not utilize) cloud platforms to collaborate with his classmates.
- 14) Yesterday, I _____ (meet) an old acquaintance who now works as a digital network administrator.
- 15) Our digital education professors _____ (not give) us so many programming assignments five years ago.

Task 3. Professional Translation

Translate the following sentences into English using Past Simple, Used to, or Would and the specified vocabulary.

- 1) Раніше я думав (I used to think), що справжню дружбу можна знайти лише в реальному житті.

- 2) Минулого тижня наш спільний друг (our mutual friend) створив новий чат для нашої IT-спільноти.
- 3) Коли ми були дітьми, ми часто збиралися (would often gather) на подвір'ї без жодних телефонів.
- 4) Мій доброзичливий сусід (My supportive neighbor) допоміг мені відремонтувати роутер учора ввечері.
- 5) Раніше у нашому районі не було (Our neighborhood didn't use to have) швидкісного інтернету.
- 6) Два дні тому я зустрів випадкового знайомого (a casual acquaintance) на цифровій конференції.
- 7) У шкільні роки мій близький довірений друг (my close confidant) завжди підтримував мої ідеї.
- 8) Раніше вони щоліта влаштовували (They used to organize) велике свято вулиці (block party).
- 9) Підлітки часто піддавалися (would often give in to) тиску однолітків у перших онлайн-чатах.
- 10) Минулого року наша тех-спільнота (tech community) провела три безкоштовні вебінари для студентів.
- 11) Раніше цей студент проводив (used to spend) багато часу за офлайн-взаємодією (offline interaction).
- 12) Учора мій колега надіслав мені (sent me) корисне посилання на профіль нашого викладача.
- 13) Колись вони були (They used to be) найкращими друзями, але потім втратили зв'язок через переїзд.
- 14) На кожній перерві ми, бувало, обговорювали (we would discuss) найновіші комп'ютерні ігри.
- 15) Цей професійний інструмент допоміг (helped) нам налагодити співпрацю всередині групи.

Task 4. Error Correction (Proofreading)

Identify and correct one error in each sentence (focus on Past Simple, Used to/Would structures, or vocabulary mismatches).

- 1) I would have a desktop computer when I was seven years old, but it had no internet connection.
- 2) Last year, my close acquaintance gave me a valuable digital key to unlock the software database.
- 3) We used to organized competitive block parties before everyone started playing mobile games.
- 4) Two hours ago, my mutual neighbor knocked on my door to ask for a temporary Wi-Fi password.
- 5) As a young boy, I will spend my entire weekends assembling simple electronic circuit boards.
- 6) Our tech neighborhood used to be very small before the massive tech boom occurred in 2021.
- 7) I didn't used to like social networks because I preferred direct face-to-face communication.
- 8) Yesterday, a lifelong friend of mine used to send me an electronic ticket to the IT conference.
- 9) When we were university undergraduate students, we used to being highly active in the coding club.
- 10) The teacher would explained the digital rules of online interaction to our class last Monday.
- 11) Peer pressure did not used to affect my academic choices during my technical school days.
- 12) The close confidant we met yesterday turned out to be a brilliant cybersecurity specialist.

- 13) My uncle would live in a digitalized smart home before he moved to a traditional rural farm.
- 14) The supportive community of our town helped us building the digital learning center in 2023.
- 15) We used to spent our winter afternoons modifying old video game scripts on our PCs.

Task 5. Sentence Transformation & Digital Synthesis

Rewrite the sentences using the grammatical structures indicated in the brackets.

- 1) I had a habit of visiting the local tech lab every Wednesday during my teenage years. (Use *Would*)
- 2) In the past, this digital neighborhood was a simple farming village. (Use *Used to*)
- 3) My friend shared his premium cloud storage account with me yesterday morning. (Turn into a *Negative sentence*)
- 4) I didn't have many acquaintances when I first joined the online programming community. (Use *Past Simple*)
- 5) We gathered at block parties every single summer when we were young. (Rewrite using *Used to*)
- 6) Did you have a habit of researching digital hardware trends five years ago? (Rewrite using *Did you use to*)
- 7) My close confidant solved the algorithm issue in less than ten minutes last night. (Turn into a *Question*)
- 8) He was a supportive neighbor, but now he lives in another country. (Use *Used to be*)
- 9) Every time our server crashed, the IT community offered instant remote assistance. (Use *Would*)

- 10) I completed the database configuration and then I called my mutual friend. (Use *Past Simple sequence*)
- 11) This tech platform was not as popular as it is today. (Rewrite using *didn't use to be*)
- 12) Our teacher explained the strict rules of offline interaction to the students. (Turn into a *Negative question*)
- 13) As a child, I sat in front of the TV for hours until my parents stopped me. (Use *Would*)
- 14) The school principal organized a major digital networking event in 2024. (Use *Past Simple*)
- 15) I thought that peer pressure only existed inside traditional physical classrooms. (Use *Used to think*)

TEMA 3. Studying. School Days

Grammar Focus: Past Continuous vs. Past Simple (Interrupted Actions during Educational Activities).

Vocabulary: academic performance, digital literacy, rote learning, classroom environment, vocational training, assignment deadline, interactive whiteboard, lecture theater, student engagement, curriculum development.

Reading Text: Transforming the Classroom Environment

Reflecting on historical educational methodologies reveals how rapidly the modern classroom environment has changed. In the past, school days were heavily dominated by rote learning, where students spent hours memorizing dates, formulas, and definitions without much practical context.

However, during the recent shift toward vocational training and digital literacy, educational institutions began adopting immersive technologies. While teachers were updating their traditional curriculum development plans, tech companies were introducing the first generation of interactive whiteboards.

This technological integration drastically increased student engagement, turning cold lecture theaters into dynamic hubs of collaborative discovery. Instead of passively listening to lectures, students began participating in real-time digital simulations.

Nevertheless, this digital transition also introduced new academic pressures. Managing multiple online assignment deadlines requires exceptional time-management skills, and academic performance now depends on a student's ability to navigate complex digital learning management systems efficiently.

Task 1. Vocabulary & Context Clues

*Fill in the blanks with the correct words: **performance, literacy, learning, environment, training, deadline, whiteboard, theater, engagement, development, assignments, classroom, school, lecture, curriculum.***

- 1) Her outstanding academic _____ earned her a full scholarship at the digital technologies faculty.
- 2) Developing early digital _____ is crucial for students entering the modern tech workforce.
- 3) Modern educators discourage simple rote _____, promoting critical thinking instead.
- 4) A positive classroom _____ encourages students to ask questions and share digital ideas.

- 5) Specialized vocational _____ equips young individuals with practical hardware engineering skills.
- 6) I missed the strict assignment _____ because my home internet connection failed at midnight.
- 7) The teacher wrote the complex python code script on the interactive _____ during the class.
- 8) Our university's main lecture _____ can accommodate more than two hundred undergraduate students.
- 9) Higher student _____ is achieved when instructors incorporate interactive virtual quizzes.
- 10) The department head is responsible for curriculum _____ in the field of digital animation.
- 11) Completing difficult programming _____ requires deep focus and solid analytical abilities.
- 12) In the future, the traditional _____ might be entirely replaced by virtual reality rooms.
- 13) My old _____ days were filled with exciting science experiments and sports competitions.
- 14) The professor delivered an inspiring _____ on the future of artificial intelligence in education.
- 15) The school updated its educational _____ to include mandatory coding lessons for first-year students.

Task 2. Grammar Focus: Past Continuous vs. Past Simple

*Put the verbs in brackets into the **Past Simple** or **Past Continuous** form.*

- 1) While the instructor _____ (explain) the coding syntax, the interactive whiteboard suddenly turned off.

- 2) I _____ (write) my digital literacy assignment when my laptop battery died.
- 3) The students _____ (listen) attentively in the lecture theater when the fire alarm rang.
- 4) Yesterday, the school board _____ (approve) a new strategy for corporate curriculum development.
- 5) While Alex _____ (undergo) his practical vocational training, he discovered a passion for robotics.
- 6) The electricity failed while we _____ (upload) our final project before the midnight deadline.
- 7) Rote learning _____ (dominate) the educational system when my parents were in secondary school.
- 8) While the researchers _____ (analyze) student engagement metrics, they noticed a surprising trend.
- 9) I _____ (receive) your email regarding the classroom environment modifications while I was traveling.
- 10) The teacher _____ (enter) the room while the pupils _____ (discuss) their academic performance.
- 11) While she _____ (study) digital technology pedagogy, she created three mobile learning apps.
- 12) We _____ (submit) our programming assignments, packed our bags, and left the laboratory.
- 13) What _____ you _____ (do) when the professor asked you about the assignment deadline?
- 14) The technical assistant _____ (calibrate) the digital projector when the lecture started.
- 15) While our mentor _____ (design) the curriculum, he consulted several international tech experts.

Task 3. Professional Translation

Translate the following sentences into English using Past Simple and Past Continuous structures.

- 1) Коли викладач пояснював (was explaining) нову тему, екран інтерактивної дошки (interactive whiteboard) згас.
- 2) Студенти розмовляли (were talking), коли професор увійшов до лекційної аудиторії (lecture theater).
- 3) Я виконував практичне завдання (was doing my assignment), коли мій комп'ютер раптово перезавантажився.
- 4) Минулого року наш університет оновив (updated) усю програму розвитку курсу (curriculum development).
- 5) Поки ми обговорювали залученість студентів (student engagement), староста здав наші роботи.
- 6) Навчальний заклад організував (organized) професійне навчання (vocational training) для першокурсників минулого місяця.
- 7) Коли я навчався в школі, механічне зазубрювання (rote learning) було дуже популярним серед вчителів.
- 8) Мій однокласник пропустив дедлайн (missed the deadline), тому що він завантажував не той файл.
- 9) Поки професор читав лекцію (was lecturing), ми конспектували основні терміни з цифрової грамотності.
- 10) Ми помітили (noticed) значне покращення академічної успішності (academic performance) після впровадження ІІІ.
- 11) Що ти робив (were you doing), коли вчитель викликав тебе до дошки вчора зранку?
- 12) Атмосфера в класі (classroom environment) була чудовою, поки студенти виконували груповий проект.

- 13) Вона вивчала мову програмування (was studying a programming language), коли отримала пропозицію про роботу.
- 14) Технік налаштовував мережу, коли ми прийшли (when we arrived) на заняття з цифрових технологій.
- 15) Ми закрили ноутбуки, вимкнули світло (turned off the lights) і залишили кабінет автоматизації.

Task 4. Error Correction (Proofreading)

Identify and correct one error in each sentence (focus on Past Simple/Past Continuous blend, or vocabulary misuse).

- 1) While I checked my academic performance log, the university server crashed due to overload.
- 2) The students were memorizing facts through digital literacy learning when the bell rang.
- 3) The instructor entered the lecture theater and was beginning to distribute the test sheets.
- 4) While we completed our vocational training, a group of foreign delegates visited our lab.
- 5) I was missing the assignment deadline because I was sleeping heavily after a long coding night.
- 6) The interactive whiteboard was breaking down while the teacher was drawing a complex logic circuit.
- 7) When the principal walked into the room, the pupils played online games on their mobile devices.
- 8) Rote learning was increasing student engagement significantly during last year's tech exhibition.
- 9) While the curriculum development team met in the office, they formulated five new digital rules.

- 10) I was knowing the answer to the professor's question, so I raised my hand immediately.
- 11) While they discussed the classroom environment, the light bulbs in the ceiling started flickering.
- 12) The student dropped his digital tablet while he ran toward the technical university library.
- 13) We were downloading the educational software, configured the settings, and tested the script.
- 14) What were you writing when the digital literacy instructor was asking you to stop?
- 15) While the laboratory assistant was clean the interactive screens, he noticed a scratch on the glass.

Task 5. Sentence Transformation & Digital Synthesis

Combine or rewrite the sentences using the specific structures requested in the brackets.

- 1) The professor delivered a speech on digital literacy. At the same time, I took notes. (Combine using *While*)
- 2) I finished my database assignment. Immediately after that, I submitted it via Google Classroom. (Use *Past Simple sequence*)
- 3) The interactive whiteboard malfunctioned during our pedagogy demonstration. (Rewrite using *While we were demonstrating...*)
- 4) We analyzed the student engagement metrics. We discovered a negative correlation. (Combine using *When*)
- 5) The vocational training class started. Tom was not present; he was coding in the library. (Combine using *While Tom was coding...*)

- 6) I did not understand the strict assignment deadline requirements.
(Turn into a *Past Continuous question* — *Were you understanding* is incorrect, select an appropriate alternative)
- 7) The school board modified the standard engineering curriculum last month. (Turn into a *Negative sentence*)
- 8) The light went out. We were performing a hardware simulation at that moment. (Combine using *Past Continuous + Past Simple*)
- 9) Did you sit in the main lecture theater when the presentation began?
(Correct the tense of the first verb)
- 10) The teacher explained rote learning methods. The projector stopped working. (Combine using *While*)
- 11) Our academic performance reached its peak in the year 2025. (Turn into a *Wh-question*)
- 12) I was not updating my professional portfolio when you called me.
(Turn into an *Affirmative sentence*)
- 13) The curriculum development team signed the contract. Then they celebrated. (Use *Past Simple sequence*)
- 14) Students worked in a stressful classroom environment. They complained to the principal. (Combine using *While*)
- 15) The bell rang. I was still typing the final line of my programming code. (Combine using *When*)

TEMA 4. Which School? Language School

Grammar Focus: Present Perfect Simple vs. Present Perfect Continuous (Tracking Learning Progress & EdTech Tools).

Vocabulary: language acquisition, intensive course, placement test, immersive learning, digital platform, language laboratory, hybrid education, fluency, tailored curriculum, adaptive software.

Reading Text: Choosing the Right Language School in the Digital Era

For future educators in digital technologies, global professional mobility depends heavily on rapid language acquisition. When selecting an intensive course, students no longer look just at physical classrooms; instead, they evaluate the digital platform infrastructure a language school offers.

Before enrollment, every candidate undergoes a mandatory placement test, which has recently transformed from a paper-based exam into an AI-driven evaluation. Modern language schools have integrated immersive learning environments where students practice specialized tech terminology. They have also upgraded traditional classrooms into high-tech language laboratories equipped with adaptive software.

This hybrid education model allows undergraduate students to balance their technical university lectures with flexible language training. Over the last decade, curriculum development specialists have focused on designing a tailored curriculum for specific professional profiles, ensuring that IT instructors achieve native-like fluency in technical English.

Evaluating how these institutions utilize educational software allows future digital teachers to understand the practical deployment of distance-learning frameworks.

Task 1. Vocabulary & Context Clues

Fill in the blanks with the correct words: *acquisition, intensive, placement, immersive, platform, laboratory, hybrid, fluency, tailored, software, curriculum, courses, testing, classrooms, infrastructure.*

- 1) Rapid language _____ is essential for IT specialists who wish to work for international corporations.
- 2) I have just enrolled in an _____ course to prepare for my technical presentations next month.
- 3) The online _____ test automatically calculated my vocabulary score within ten minutes.
- 4) Virtual reality headsets provide an _____ learning experience for practicing technical English.
- 5) Our university has updated its digital _____ to allow seamless remote assignment submission.
- 6) The professor is currently monitoring student progress inside the specialized language _____.
- 7) Many European educational institutions are adopting a _____ education model this semester.
- 8) Achieving professional _____ in English requires consistent speaking practice and interactive tasks.
- 9) This academy provides a _____ curriculum specifically designed for future computer science instructors.
- 10) The school uses intelligent adaptive _____ to identify grammatical weaknesses in real-time.
- 11) The dean has recently approved a new undergraduate _____ focused on digital pedagogy.
- 12) Students can choose from various specialized _____ depending on their technical background.

- 13) Automated _____ tools have simplified the way teachers evaluate student academic knowledge.
- 14) Traditional physical _____ are being equipped with webcams for streaming hybrid lectures.
- 15) The technical _____ of the language academy includes cloud-based servers and fast Wi-Fi.

Task 2. Grammar Focus: Present Perfect Simple vs. Present Perfect Continuous

*Put the verbs in brackets into the **Present Perfect Simple** or **Present Perfect Continuous** form.*

- 1) I _____ (study) technical English vocabulary for three hours, and my eyes are completely tired.
- 2) Our department _____ (develop) three new digital platforms for language acquisition this year.
- 3) The student _____ (take) the adaptive placement test twice, but he wants to try again.
- 4) For the past two weeks, they _____ (attend) an intensive course in professional communication.
- 5) Tech companies _____ (install) ten interactive whiteboards in our language laboratory since Monday.
- 6) She _____ (practice) her coding presentation all morning, and now she is ready to speak.
- 7) We _____ (not receive) our final marks for the hybrid education module yet.
- 8) My classmate _____ (use) that adaptive learning software for six months with great results.

- 9) The curriculum committee _____ (finalize) the syllabus for the digital literacy course.
- 10) How long _____ you _____ (search) for a suitable language school online?
- 11) The instructor _____ (explain) the rules of immersive learning, so please start the exercise.
- 12) I _____ (try) to log into the cloud educational platform since 9:00 AM, but the server is down.
- 13) Several top electronics companies _____ (sponsor) our vocational training lab since 2024.
- 14) The school dean _____ (notice) a significant improvement in student engagement this term.
- 15) Future instructors _____ (analyze) the benefits of tailored curricula since the semester began.

Task 3. Professional Translation

Translate the following sentences into English using Present Perfect Simple or Present Perfect Continuous.

- 1) Я користуюся цією цифровою платформою (have been using this digital platform) вже три місяці.
- 2) Наш університет щойно підписав (has just signed) контракт із сучасною мовною школою.
- 3) Вона здає вступний тест (has been taking the placement test) з другої години дня.
- 4) Методисти вже розробили (have already developed) індивідуальну програму (tailored curriculum) для нас.
- 5) Студенти цього тижня відвідують інтенсивний курс (have been attending an intensive course) з IT-англійської.

- 6) Ми ще не завантажили (have not downloaded yet) нове адаптивне програмне забезпечення (adaptive software).
- 7) Скільки часу ти вивчаєш (have you been studying) професійну термінологію для автоматизації?
- 8) Професор уже перевірів (has already checked) п'ятнадцять технічних звітів першокурсників.
- 9) Техніки налаштовують обладнання в мовній лабораторії (language laboratory) з самого ранку.
- 10) Цей студент досяг значної швидкості мовлення (has achieved fluency) за короткий період часу.
- 11) Ми не бачили нашого викладача з цифрової педагогіки з минулого вівторка.
- 12) Чому вони так довго обговорюють (have they been discussing) особливості гібридного навчання?
- 13) Кафедра впровадила імерсивне навчання (has implemented immersive learning) у цьому семестрі.
- 14) Я написав три коди для нашого спільного проекту з автоматизації сьогодні.
- 15) Популярність мовних шкіл значно зросла (has increased significantly) з 2022 року.

Task 4. Error Correction (Proofreading)

Identify and correct one error in each sentence (focus on Present Perfect structures, aspect confusions, or vocabulary slips).

- 1) I am studying inside this language laboratory since two hours ago, and I need a break.
- 2) The curriculum development team has completed the new intensive software course last month.

- 3) He has been taking four different placement tests today, and he has passed all of them.
- 4) Our digital platform is having technical issues since the administrator updated the system server.
- 5) They have been designing a tailored curriculum, and they are finally publishing it yesterday.
- 6) How many hours have you been knowing that professional acquaintance from the tech community?
- 7) My classmate has downloaded three massive language acquisition applications since this morning.
- 8) The hybrid education system has been changing the traditional school environment several times.
- 9) I have been trying to achieve native-like fluency since I have entered this technical university.
- 10) Look! The adaptive software has finally crash after running the complex evaluation algorithm.
- 11) We have been discussing the classroom environment for hours, but we didn't find a solution yet.
- 12) The student engagement metrics have been dropping since the instructor has stopped using the whiteboard.
- 13) Rote learning has disappeared entirely from our vocational training school ten years ago.
- 14) She has been writing fifteen sentences for Task 3, and she is currently starting Task 4.
- 15) My supportive neighbor has been lending me his digital router three times this week.

Task 5. Sentence Transformation & Digital Synthesis

Rewrite or combine the sentences using the specific prompts in brackets.

- 1) I started configuring the language laboratory network at 8 AM. I am still doing it. (Combine using *Present Perfect Continuous*)
- 2) The school introduced an AI placement test. This happened in the past, the time is not specified. (Use *Present Perfect Simple*)
- 3) He began analyzing the benefits of hybrid education three years ago. (Rewrite using *has been analyzing... for*)
- 4) We submitted all our digital literacy assignments. We are waiting for the marks now. (Combine using *Present Perfect Simple*)
- 5) I didn't see any improvement in his technical translation fluency. (Rewrite using a *Negative Present Perfect sentence*)
- 6) The adaptive software tracks student mistakes. It started doing this when the class began. (Use *Present Perfect Continuous*)
- 7) This is my first time using an immersive learning headset. (Rewrite starting with *I have never...*)
- 8) The instructor explained the tailored curriculum. The students understand it now. (Combine using *has explained*)
- 9) They started developing the school infrastructure in 2024. They are still developing it. (Use *Present Perfect Continuous with since*)
- 10) How long is the duration of your study session on this digital platform? (Rewrite using *How long have you been...*)
- 11) Mary finished her third intensive course. (Turn into a *Yes/No question in the Present Perfect*)
- 12) I look for a good technical vocabulary dictionary all day. (Correct the grammatical tense)
- 13) The assignment deadline arrived. The system closed the submission window. (Combine using *has arrived*)
- 14) The generational divide decreased due to recent digital literacy campaigns. (Use *Present Perfect Simple*)

15) We are in this lecture theater. We arrived here forty minutes ago.
(Combine using *Present Perfect Simple with for*)

TEMA 5. Life and Traditions at School and University

Grammar Focus: Future Tenses & Future Time Clauses (Planning Academic Events & Digital Transitions).

Vocabulary: undergraduate student, student union, academic calendar, graduation ceremony, fresher's week, extracurricular activity, campus facilities, alumni network, digital registry, code of conduct.

Reading Text: Academic Culture and Digital Management Systems

University life represents a unique blend of centuries-old academic traditions and cutting-edge administrative systems. For an undergraduate student entering the faculty of professional education, navigating this environment begins during fresher's week, which introduces campus facilities alongside online learning management tools.

Students learn about the official code of conduct, which now covers cybersecurity ethics and acceptable internet use. Traditional events like the annual graduation ceremony remain highly anticipated, but the organization of these events relies heavily on modern digital registries.

The student union collaborates with faculty managers to update the academic calendar, inserting both examinations and digital technology hackathons. Furthermore, participating in an extracurricular activity helps students build a supportive professional circle, which later expands into an active alumni network.

As institutions adopt paperless administration, future teachers must familiarize themselves with these digital ecosystems, as they will soon be responsible for managing similar electronic academic frameworks in their own career paths.

Task 1. Vocabulary & Context Clues

*Fill in the blanks with the correct words: **undergraduate, union, calendar, ceremony, fresher's, activities, facilities, network, registry, conduct, campus, students, activities, alumni, digital.***

- 1) Every first-year _____ student receives a personal institutional email account during orientation.
- 2) The student _____ represents the rights of youth and organizes annual university festivals.
- 3) According to the official academic _____, the winter examination session will start on December 5th.
- 4) Parents are invited to attend the formal graduation _____ at the main assembly hall.
- 5) During _____ week, newcomers participate in workshops to learn how to use the online library.
- 6) Joining an extracurricular _____ like the robotics club enhances practical programming skills.
- 7) Modern campus _____ include specialized computer labs, a gym, and high-speed Wi-Fi zones.
- 8) Our university _____ network helps graduates secure prestigious jobs in leading IT enterprises.
- 9) The university stores all student marks and personal information inside a secure digital _____.

- 10) Violating the institution's professional code of _____ can lead to immediate suspension.
- 11) The university _____ is located outside the city center, but it has excellent transport links.
- 12) Senior _____ often organize peer-mentoring sessions to help freshmen adapt to university life.
- 13) Engaging in sports _____ reduces the stress caused by tight assignment deadlines.
- 14) Successful _____ frequently donate modern electronic hardware to their former faculties.
- 15) The registrar's office is updating the _____ database to prevent security breaches.

Task 2. Grammar Focus: Future Tenses & Future Time Clauses

*Complete the sentences using **Future Simple**, **Future Continuous**, **Future Perfect**, or the correct tense for **Future Time Clauses (Present Simple)**.*

- 1) Next Monday at 10:00 AM, all undergraduate students _____ (attend) the fresher's week orientation.
- 2) As soon as the dean _____ (sign) the academic calendar, we will upload it to the website.
- 3) By the end of this semester, our technical university _____ (digitize) its entire student registry.
- 4) I _____ (help) you find the engineering laboratory when I finish my online lecture.
- 5) This time next week, the student union _____ (organize) a major coding competition on campus.

- 6) Before the graduation ceremony _____ (start), the technical assistants will test the microphones.
- 7) By next September, they _____ (build) new campus facilities for the digital technology faculty.
- 8) If a student violates the code of conduct, the university council _____ (review) their profile.
- 9) I am sure that our alumni network _____ (provide) excellent career opportunities for graduates.
- 10) When you _____ (log) into the digital registry tomorrow, you will see your updated test scores.
- 11) By the time the professor arrives, the assistant _____ (configure) the interactive whiteboard.
- 12) Don't call me tomorrow evening because I _____ (prepare) for my vocational training exam.
- 13) We _____ (not start) the extracurricular activity until the safety inspector approves the lab.
- 14) By the year 2027, this educational startup _____ (launch) ten adaptive software modules.
- 15) While you are participating in the hackathon, our instructors _____ (monitor) your progress remotely.

Task 3. Professional Translation

Translate the following sentences into English using the correct future structures and time clauses.

- 1) Журнал оцінок буде оновлено, як тільки староста надішле (as soon as the monitor sends) відомість.
- 2) Цього часу завтра першокурсники будуть знайомитися (will be exploring) з кампусом університету.

- 3) До кінця року наша кафедра оновить (will have updated) весь цифровий реєстр (digital registry).
- 4) Якщо ти порушиш кодекс поведінки (code of conduct), тебе виключать з університету.
- 5) Студентська рада (student union) організує велику конференцію наступного місяця.
- 6) Я покажу тобі нові комп'ютерні лабораторії (campus facilities), коли закінчиться лекція.
- 7) До 2028 року цей університет випустить (will have graduated) понад п'ять тисяч ІТ-педагогів.
- 8) Коли ми прийдемо на випускну церемонію (graduation ceremony), ми побачимо наших випускників.
- 9) Поки ти писатимеш код, я перевірятиму (will be checking) методичні рекомендації.
- 10) Вони не опублікують новий академічний календар (academic calendar), поки не узгодять дати.
- 11) Наступного вівторка о третій годині ми будемо здавати (will be taking) наш підсумковий тест.
- 12) Я вірю, що наша мережа випускників (alumni network) допоможе тобі знайти хорошу роботу.
- 13) До п'ятниці всі студенти бакалаврату (undergraduate students) здадуть свої проекти.
- 14) Якщо ти приєднаєшся до цього гуртка (extracurricular activity), ти отримаєш корисні навички.
- 15) Наш куратор проведе інструктаж під час тижня першокурсника (fresher's week).

Task 4. Error Correction (Proofreading)

Identify and correct one error in each sentence (look for future tense misuses, time clause errors, or word choice flaws).

- 1) As soon as the student union will publish the event schedule, we will choose our activities.
- 2) By the end of this week, I will be completing all fifteen sentences for my professional translation task.
- 3) This time next month, the undergraduate students will have celebrated their graduation ceremony.
- 4) If you will log into the secure digital registry, you will find your individual placement test score.
- 5) The university will not modify its strict code of conduct until the next semester will start.
- 6) When the professor will enter the lecture theater tomorrow, he will deliver a speech on EdTech.
- 7) By 2027, our technical faculty will install automated campus facilities in every single department.
- 8) Don't worry, I am writing the curriculum development documentation by the time you return.
- 9) While the technicians will be upgrading the server network, students will not have access to the cloud.
- 10) The academic calendar is being ready as soon as the department head signs the official draft.
- 11) By the time the fresher's week ends, the first-year undergraduates will join several clubs.
- 12) I will call you when I am completing the configuration of the interactive whiteboards.

13) If the alumni network helps our academy, we will have purchased three new 3D printers next year.

14) Next Friday morning, my supportive neighbor will have fixed the electrical power hub for us.

15) Students are not participating in any extracurricular activity unless they pass their exams.

Task 5. Sentence Transformation & Digital Synthesis

Rewrite or combine the sentences using the specific prompts in brackets.

1) The digital registry system backup will finish before midnight. (Use *Future Perfect Simple*)

2) I will complete my programming assignment. Right after that, I will join the student union meeting. (Combine using *As soon as*)

3) Tomorrow at 2 PM, our instructor intends to test the interactive whiteboards. (Use *Future Continuous*)

4) The dean updates the academic calendar. This is necessary before students choose their holidays. (Combine using *Before*)

5) I expect that our alumni network will fund the new digital technology laboratory. (Rewrite using *will probably*)

6) If you do not follow the official code of conduct, you will face suspension. (Rewrite using *Unless*)

7) By next June, Mary plans to graduate from the university. (Rewrite using *Future Perfect*)

8) We will be in the lecture theater. The technicians will install the cloud server during that time. (Combine using *While*)

9) I am going to buy a new laptop. I need to receive my scholarship money first. (Combine using *Once*)

- 10) The fresher's week schedule changes next year. That is a confirmed institutional plan. (Use *Present Continuous for future*)
- 11) By the end of the day, Alex intends to analyze fifteen student engagement logs. (Use *Future Perfect*)
- 12) Will you use the campus facilities tomorrow morning at nine? (Rewrite into a formal *Future Continuous question*)
- 13) The assignment deadline is tonight. If I don't submit the file, the system will reject it. (Combine into a *First Conditional*)
- 14) The graduation ceremony starts at 11 AM. (Rewrite using *The graduation ceremony is due to...*)
- 15) I will review the curriculum development plans. I am waiting for your signal. (Combine using *When*)

TEMA 6. Social Life. Another Country

Grammar Focus: Modals of Obligation, Permission, and Prohibition (Navigating International Norms & Tech Regulations).

Vocabulary: cultural assimilation, digital nomad, expat community, visa regulation, code-switching, social etiquette, relocation package, language barrier, double standard, institutional support.

Reading Text: Global Mobility and Digital Collaboration

In our highly interconnected global society, graduates specializing in digital technologies often choose to work abroad or live as a digital nomad. Relocating to another country involves much more than just booking a flight; it requires a deep understanding of cultural assimilation and local social etiquette.

When entering a new professional ecosystem, an expat community can offer vital guidance regarding local visa regulations and registration procedures. In foreign working environments, professionals frequently practice code-switching, adapting their communication style to match both local cultural expectations and international corporate standards.

Despite the presence of digital translation software, a severe language barrier can still hinder day-to-day collaboration and technical troubleshooting. Therefore, international tech corporations usually provide a comprehensive relocation package alongside institutional support for language training.

Moreover, future digital educators working globally must be aware of international internet laws and data privacy regulations, ensuring they operate ethically and legally while navigating diverse social and corporate environments.

Task 1. Vocabulary & Context Clues

*Fill in the blanks with the correct words: **assimilation, nomad, community, regulation, switching, etiquette, package, barrier, standards, support, countries, mobility, immigration, network, language.***

- 1) Becoming a digital _____ allows you to write software code while traveling around the world.
- 2) Successful cultural _____ takes time, open-mindedness, and constant interaction with locals.
- 3) The local expat _____ organizes weekly meetups to help foreign engineers settle down.
- 4) You must strictly follow every visa _____ to avoid legal complications while working abroad.

- 5) Linguists define code-_____ as the practice of alternating between two or more languages in conversation.
- 6) Understanding local social _____ prevents embarrassing misunderstandings during business dinners.
- 7) The company's attractive relocation _____ includes free housing and health insurance for one year.
- 8) Overcoming the initial language _____ is the biggest challenge for international undergraduate students.
- 9) We must ensure our new digital platform complies with global data privacy _____.
- 10) The foreign university offers excellent institutional _____ for international researchers and guests.
- 11) Moving to other _____ requires a lot of documentation, including certified diplomas.
- 12) Global professional _____ is increasing among young educators who specialize in digital literacy.
- 13) You should visit the official _____ website to verify the list of mandatory entry documents.
- 14) Building a professional _____ abroad is easier if you attend international tech exhibitions.
- 15) He speaks three languages fluently, which helps him eliminate any communication _____.

Task 2. Grammar Focus: Modals of Obligation, Permission, and Prohibition

*Fill in the blanks with the correct modal verbs: **must, mustn't, have to, don't have to, can, can't, should, shouldn't.***

- 1) You _____ possess a valid work visa if you want to join an engineering company in Germany.
- 2) Digital nomads _____ follow strict local office hours because they usually choose their own schedules.
- 3) Students _____ download pirated software on campus computers; it is strictly prohibited.
- 4) You _____ learn at least basic conversational phrases before you relocate to another country.
- 5) In this country, foreigners _____ buy a local SIM card without showing their physical passport.
- 6) You _____ worry about the language barrier because the corporation provides free translators.
- 7) International experts _____ comply with the host country's data protection rules under the law.
- 8) Visitors _____ smoke inside the university lecture theaters; it is against the code of conduct.
- 9) You _____ look at your smartphone during an interview; it violates standard social etiquette.
- 10) Foreign undergraduate students _____ work up to twenty hours per week under current visa regulations.
- 11) We _____ print out our digital certificates because electronic verifications are fully accepted here.
- 12) You _____ definitely join the local expat community if you want to find supportive friends quickly.
- 13) Engineering candidates _____ pass a specialized technical English test before they receive the relocation package.
- 14) Instructors _____ share private student information with external companies; it is illegal.

15) _____ I submit my digital literacy portfolio in PDF format, or can I send a link?

Task 3. Professional Translation

Translate the following sentences into English using appropriate modal verbs and target vocabulary.

- 1) Іноземні студенти повинні дотримуватися (must follow) усіх місцевих візових правил (visa regulations).
- 2) Тобі не обов'язково роздруковувати (You don't have to print) цей електронний документ, він є в базі даних.
- 3) Цифрові кочівники (Digital nomads) можуть працювати з будь-якої точки світу, де є хороший Інтернет.
- 4) Не можна завантажувати (You mustn't download) неліцензійне програмне забезпечення на університетські ПК.
- 5) Тобі слід приєднатися (You should join) до місцевої спільноти експатів (expat community), щоб знайти друзів.
- 6) Чи можу я отримати допомогу (Can I get institutional support) від університету після переїзду?
- 7) Роботодавці повинні надати (have to provide) повний пакет релокації (relocation package) для інженерів.
- 8) Тобі не слід турбуватися (You shouldn't worry) про мовний бар'єр, всі говорять англійською.
- 9) Студенти не можуть користуватися (cannot use) телефонами під час підсумкового тестування.
- 10) Для успішної культурної асиміляції (cultural assimilation) ви повинні вивчати місцеві традиції.
- 11) Чи потрібно мені скласти іспит (Do I have to take an exam) для отримання робочої візи?

- 12) Ви не повинні ігнорувати (You mustn't ignore) правила соціального етикету (social etiquette) цієї країни.
- 13) Програмісти можуть використовувати код-світчінг (can use code-switching) під час міжнародних нарад.
- 14) Ця ІТ-компанія дозволяє своїм працівникам працювати віддалено в іншому місті.
- 15) Ти маєш перевірити (must check) налаштування кібербезпеки перед початком роботи за кордоном.

Task 4. Error Correction (Proofreading)

Identify and correct one error in each sentence (look for modal verb misuses, wrong prepositions, or vocabulary mistakes).

- 1) Digital nomads must to pay taxes according to international and national financial laws.
- 2) You mustn't to bring a physical passport because the border controllers accept digital IDs.
- 3) According to visa regulations, international students don't have to work without an official permit.
- 4) You should to research local social etiquette before you accept an overseas relocation package.
- 5) An expat community can helping foreign software engineers adapt to a new digital neighborhood.
- 6) Future educators haven't to use old curriculum development models if they want to increase engagement.
- 7) Look! The technician musts fix the language laboratory server before the intensive course begins.
- 8) Foreigners shouldn't violating the local code of conduct if they want to stay in the university dormitory.

- 9) We can't accessing the digital registry yesterday because the entire system was undergoing maintenance.
- 10) If you are living in another country, you must facing cultural assimilation challenges daily.
- 11) You don't have to use your mobile device while driving a car; it is highly dangerous and illegal.
- 12) Does an undergraduate student has to register their personal laptop at the campus IT office?
- 13) The institutional support team didn't could translate the technical documentation last Friday.
- 14) You must to eliminate the language barrier if you intend to manage global automation networks.
- 15) Expat engineers shouldn't to ignore local data privacy regulations while designing mobile apps.

Task 5. Sentence Transformation & Digital Synthesis

Rewrite the sentences using the specific modal verbs or structures indicated in the brackets.

- 1) It is strictly prohibited for students to share their university cloud passwords. (Use *Mustnot*)
- 2) It is not necessary for a digital nomad to rent a traditional office space. (Use *Don't have to*)
- 3) I advise you to read the guidelines before migrating the database to the foreign server. (Use *Should*)
- 4) Is it permitted for foreigners to open a local bank account online? (Rewrite using *Can*)
- 5) It is a legal obligation for employers to verify visa regulations before hiring expats. (Use *Have to*)

- 6) You are not allowed to enter the main server room without a biometric badge. (Use *Can't*)
- 7) It was mandatory for me to take an English fluency test before relocation. (Use *Had to*)
- 8) It is vital that future tech teachers understand the risks of digital peer pressure. (Use *Must*)
- 9) I am sure that learning code-switching techniques is a good idea for you. (Use *Ought to*)
- 10) The school registry does not require paper documents from international applicants anymore. (Rewrite using *not have to*)
- 11) Is there an obligation for undergraduate freshmen to participate in fresher's week? (Rewrite using *Do freshmen have to*)
- 12) Do not copy copyrighted source code; it violates the professional code of conduct. (Use *Mustnot*)
- 13) The company provided a relocation package, so my friend didn't pay for his flight. (Rewrite using *not need to pay*)
- 14) It is acceptable if you submit the digital literacy assignment after the weekend. (Use *Can*)
- 15) I strongly discourage you from ignoring the institutional support team's advice. (Use *Shouldnot*)

TEMA 7. Hometown

Grammar Focus: Adjectives: Comparatives and Superlatives (Comparing Urban Infrastructure & Smart City Solutions).

Vocabulary: urban development, smart city, infrastructure, residential area, industrial hub, digital divide, public utility, green zone, demographic shift, automated transit.

Reading Text: From Traditional Hometowns to Smart Cities

For students of digital technologies, analyzing a hometown involves examining its technical infrastructure and readiness for digital transformation. Modern urban development is rapidly converting traditional settlements into smart cities, where public utilities, traffic flows, and energy grids are managed by automated algorithms.

When comparing a compact residential area to a massive industrial hub, significant differences emerge in connectivity and data consumption. Unfortunately, many regional towns still suffer from a severe digital divide, meaning that remote villages have much slower internet speeds than central metropolitan districts.

To improve the quality of life, municipal councils are investing in green zones and automated transit systems, which make cities cleaner and more efficient. Demographic shifts also force urban planners to digitize administrative registries and public services.

As future educators in professional education, understanding how smart technologies transform your hometown helps you design relevant curriculum materials on IoT (Internet of Things) and modern civil engineering for your future students.

Task 1. Vocabulary & Context Clues

*Fill in the blanks with the correct words: **development, smart, infrastructure, residential, hub, divide, utilities, zones, shift, transit, hometown, cities, internet, services, areas.***

- 1) My _____ was a quiet regional town, but recently it has become a dynamic tech center.

- 2) The local municipal council is implementing modern _____ city solutions to optimize traffic.
- 3) Upgrading the digital _____ of agricultural regions requires significant financial investment.
- 4) Families prefer to live in a quiet _____ area away from noisy automated factories.
- 5) The capital city is a major industrial _____ that attracts software engineers from all over the country.
- 6) The digital _____ prevents students in remote areas from accessing the university server smoothly.
- 7) Blockchain technology can secure automated public _____ like water supply and electricity registries.
- 8) Urban planners are adding more green _____ to reduce carbon dioxide levels in the center.
- 9) A major demographic _____ is occurring as younger populations migrate to highly digitalized cities.
- 10) The new automated _____ network includes driverless electric buses and smart timetables.
- 11) Sustainable urban _____ balances economic growth with environmental protection initiatives.
- 12) Future tech instructors are developing software applications for global smart _____.
- 13) Access to high-speed _____ is now considered a fundamental human right in modern society.
- 14) Citizens can pay for municipal _____ through a unified government mobile application.
- 15) Drones are currently monitoring traffic congestion over central commercial _____.

Task 2. Grammar Focus: Adjectives (Comparatives and Superlatives)

*Put the adjectives in brackets into the **Comparative** or **Superlative** form.*

- 1) My hometown is much _____ (small) than Kiev, but its fiber-optic network is faster.
- 2) Building a smart city is one of _____ (expensive) projects for any regional municipality.
- 3) The digital divide is _____ (noticeable) in rural areas than in major industrial hubs.
- 4) Tokyo has _____ (advanced) automated transit system in the world today.
- 5) Living in a residential area is usually _____ (quiet) than living in a crowded commercial center.
- 6) Our university laboratory has _____ (good) 3D printers in the entire administrative district.
- 7) The new public utility system is far _____ (efficient) than the outdated manual framework.
- 8) Silicon Valley is _____ (famous) technology hub on the planet.
- 9) Remote sensing tools make urban development planning much _____ (easy) for engineers.
- 10) This green zone is _____ (beautiful) place in my native town.
- 11) Yesterday's server configuration task was _____ (difficult) than today's HTML coding assignment.
- 12) Statistics show that the demographic shift is becoming _____ (intense) every year.
- 13) Access to online administrative tools is _____ (convenient) way to register your residency.
- 14) The central computing processor is _____ (reliable) component of the smart grid infrastructure.

15) Public transportation in smart cities is significantly _____ (cheap) than private taxi services.

Task 3. Professional Translation

Translate the following sentences into English using appropriate comparative and superlative adjectives.

- 1) Мій рідний дім (My hometown) розташований у найменшому (in the smallest) районі нашого міста.
- 2) Сучасні розумні міста (Modern smart cities) є набагато ефективнішими, ніж традиційні мегаполіси.
- 3) Цифровий розрив (The digital divide) у нашому регіоні став меншим (has become smaller) цього року.
- 4) Наш новий автоматизований транспорт (automated transit) — це найзручніший спосіб пересування.
- 5) Індустріальні хаби потребують більшої кількості електроенергії, ніж житлові райони.
- 6) Оновлення комунальних послуг (Upgrading public utilities) — найважливіше завдання для міської ради.
- 7) Ця зелена зона є набагато більшою (is much bigger), ніж старий міський парк біля університету.
- 8) Нова інфраструктура нашого кампусу є найкращою (is the best) у всій області.
- 9) Проектування міського розвитку є складнішим (is more complex), ніж налаштування комп'ютера.
- 10) Найбільший демографічний зсув (The biggest demographic shift) спостерігається в ІТ-секторі.
- 11) Новий мобільний додаток працює швидше (works faster), ніж стара версія веб-сайту.

- 12) Це найсучасніша комп'ютерна лабораторія (the most modern computer lab) нашої академії.
- 13) Оренда офісу в центрі міста є значно дорожчою, ніж у передмісті.
- 14) Бездротовий інтернет у бібліотеці є надійнішим (is more reliable), ніж у студентському гуртожитку.
- 15) Автоматизована система освітлення є найекономічнішою (the most economical) технологією для дому.

Task 4. Error Correction (Proofreading)

Identify and correct one error in each sentence (look for adjective mistakes, wrong structures, or vocabulary slips).

- 1) The digital infrastructure of London is more advanced than my small residential hometown.
- 2) This is the more beautiful green zone I have ever seen in any industrial hub.
- 3) Automated transit systems are baddest for old cities with narrow historical streets.
- 4) Upgrading public utilities is much more easier when you use open-source cloud databases.
- 5) The digital divide is becoming worst because low-income families cannot afford computers.
- 6) Our university registry possesses the most modernest encryption algorithm in the country.
- 7) Tokyo's smart city network is far more efficienter than the infrastructure of Rome.
- 8) My sister thinks that coding is most interesting than analyzing demographic shifts.

- 9) This interactive whiteboard is the bestest tool for illustrating modern urban development models.
- 10) Central industrial hubs are usually more noisy than distant peaceful residential areas.
- 11) The placement test we completed yesterday was the most hardest exam of the semester.
- 12) Smart grids are expensiver to install, but they save thousands of megawatts of energy.
- 13) Her academic performance is much gooder than the marks of her childhood companions.
- 14) Traveling to another country is dangerouser if you do not understand its social etiquette.
- 15) This electronic registry is the most safe system for protecting personal resident data.

Task 5. Sentence Transformation & Digital Synthesis

Rewrite the sentences using the specific prompts in brackets.

- 1) No other city in our region has a digital infrastructure as advanced as our hometown. (Use *the most advanced*)
- 2) Residential areas consume less energy than massive industrial hubs. (Rewrite starting with *Industrial hubs...*)
- 3) Manual public utilities are inefficient. Automated smart grids are highly efficient. (Combine using *far more efficient than*)
- 4) This green zone is large. The other three zones are smaller. (Use *the largest*)
- 5) The digital divide in 2026 is worse than it was in 2020. (Rewrite using *not as good as*)

- 6) As urban development accelerates, demographic shifts become more rapid. (Rewrite using *The more... the more...*)
- 7) I have never operated an automated transit simulator more sophisticated than this one. (Use *the most sophisticated*)
- 8) Coding software for a smart city is highly complicated. Preparing a lesson plan is less complicated. (Combine using *more complicated than*)
- 9) Our campus facilities are excellent. Other university facilities are average. (Use *the best*)
- 10) A small hometown has slow data connection speeds. A capital city has fast connection speeds. (Combine using *much faster... than*)
- 11) This adaptive placement test is not as simple as the previous evaluation. (Rewrite using *more difficult than*)
- 12) No other social etiquette rule is as strict as protecting user data privacy. (Use *the strictest*)
- 13) The assignment deadline for the smart city project is urgent. The grammar homework is less urgent. (Combine using *more urgent than*)
- 14) Modern electronic registries are secure. Old paper databases are vulnerable. (Combine using *significantly more secure than*)
- 15) To me, analyzing community dynamics is interesting. Reviewing rote learning models is boring. (Combine using *more interesting than*)

TEMA 8. Online Dating. Going Out

Grammar Focus: Relative Clauses: Defining and Non-Defining (Describing Social Platforms, Algorithms & Security).

Vocabulary: dating application, matchmaking algorithm, catfishing, profile verification, digital footprint, cyberstalking, real-

time geolocation, privacy settings, social venue, interpersonal connection.

Reading Text: The Mechanics of Modern Socialization

Socializing and going out have been completely redefined by mobile technology and matchmaking algorithms. Today, an undergraduate student looking for an interpersonal connection does not just rely on chance encounters at a local social venue; instead, they download a specialized dating application.

These platforms use sophisticated software that matches users based on shared digital footprints, location parameters, and interests. However, digital technology educators must warn students about the serious safety risks associated with online communication.

Phenomena like catfishing, where an individual creates a fake identity to deceive others, have become increasingly common. To combat this, modern applications implement strict profile verification processes and advanced privacy settings.

Furthermore, users should be cautious about sharing their real-time geolocation, which can unfortunately be exploited for cyberstalking. In the context of digital literacy and professional education, teaching younger generations how to navigate social applications securely is a vital aspect of digital citizenship.

Task 1. Vocabulary & Context Clues

*Fill in the blanks with the correct words: **application, algorithm, catfishing, verification, footprint, cyberstalking, geolocation, settings, venue, connection, networks, profiles, identities, software, safety.***

- 1) She met her close confidant through a mobile dating _____ that operates worldwide.
- 2) The platform's secret matchmaking _____ analyzes user preferences to find perfect partners.
- 3) Educational seminars often warn teenagers about _____, as online profiles can easily be faked.
- 4) Robust profile _____ helps social networking platforms eliminate malicious bots and scammers.
- 5) Every photo you upload leaves a permanent digital _____ that employers might check in the future.
- 6) Security experts state that sharing too much personal information can lead to dangerous _____.
- 7) Never activate your real-time _____ on social platforms unless you trust your contacts completely.
- 8) You should check your account's privacy _____ immediately after installing any new application.
- 9) A trendy local cafe or an interactive tech club can serve as a great social _____ for students.
- 10) Building a deep interpersonal _____ requires honesty, shared values, and regular interaction.
- 11) Users must protect their virtual _____ by changing passwords every three months.
- 12) Online dating companies spend millions developing specialized cybersecurity _____ to protect users.
- 13) First-year undergraduates often explore different entertainment venues when they are going _____.
- 14) Personal mobile _____ should not display private information like home addresses or bank cards.

15) Digital literacy lessons emphasize the importance of personal _____ inside virtual spaces.

Task 2. Grammar Focus: Relative Clauses (Defining and Non-Defining)

*Complete the sentences using relative pronouns: **who, whom, which, whose, where, when.** Add commas where necessary for non-defining relative clauses.*

- 1) Tinder _____ was launched in 2012 is one of the most popular dating applications today.
- 2) The computer engineer _____ designed this matchmaking algorithm works for our university.
- 3) Students should avoid social venues _____ public Wi-Fi networks do not require passwords.
- 4) Do you remember the evening _____ we first discussed our digital technology project?
- 5) The student _____ profile verification failed was blocked by the platform administrator.
- 6) This new application _____ privacy settings are highly customizable protects against cyberstalking.
- 7) The tech laboratory _____ we configure our automated transit simulations is located on the third floor.
- 8) Catfishing _____ is a serious form of online deception can cause severe psychological distress.
- 9) Is this the digital footprint database _____ you were analyzing during the lecture?
- 10) Dr. Smith _____ teaches digital literacy showed us how to manage real-time geolocation risks.

- 11) The smartphone _____ application crashed three times last night belongs to my sister.
- 12) Young adults _____ look for interpersonal connections online must be very cautious.
- 13) We visited an industrial hub _____ a new smart city center is currently being developed.
- 14) The software developers _____ the company hired last week have updated the matchmaking code.
- 15) Friday is the day _____ most young people go out to local social venues.

Task 3. Professional Translation

Translate the following sentences into English using defining and non-defining relative clauses.

- 1) Студент, який (The student who) розробив цей алгоритм підбору (matchmaking algorithm), отримав нагороду.
- 2) Мобільні додатки для знайомств, які (Dating apps, which) використовують геолокацію, мають бути безпечними.
- 3) Це те саме кафе (This is the cafe where), де ми зазвичай збираємося після занять.
- 4) Професор, чий (The professor whose) курс з цифрової грамотності я слухаю, попередив нас про кіберсталкінг.
- 5) Верифікація профілю (Profile verification), яка займає кілька хвилин, захищає від шахраїв.
- 6) Ми розробляємо платформу, яка (which) допомагає людям створювати міжособистісні зв'язки.
- 7) Інтернет-користувачі, чий цифровий слід є загальнодоступним, часто ризикують своєю приватністю.

- 8) Шахрайство з фейковими акаунтами (Catfishing), про яке вчитель розповідав нам, є дуже небезпечним.
- 9) Налаштування приватності (Privacy settings), які ви бачите на екрані, можна легко змінити.
- 10) 2024 рік — це рік, коли (when) наша тех-спільнота запустила цей соціальний додаток.
- 11) Робототехнік, з яким (with whom) ми вчора спілкувалися, приїхав з іншої країни.
- 12) Розумне місто, де інфраструктура повністю автоматизована, є мрією багатьох архітекторів.
- 13) Новий розважальний заклад, який відкрився минулого тижня, має власну Wi-Fi зону.
- 14) Підлітки, які проводять багато часу в мережі, часто піддаються тиску однолітків.
- 15) Програмне забезпечення, за допомогою якого (by means of which) ми перевіряли дані, застаріло.

Task 4. Error Correction (Proofreading)

Identify and correct one error in each sentence (look for relative pronoun misuses, comma punctuation flaws, or vocabulary mix-ups).

- 1) The dating application who my classmate downloaded last night has strict profile verification tools.
- 2) My close confidant, whose is studying digital pedagogy, helped me adjust my privacy settings.
- 3) This is the social venue which we first met our mutual friends from the IT community.
- 4) Catfishing, that is a widespread digital deception method, should be discussed in classrooms.

- 5) The matchmaking algorithm, whom software script was updated yesterday, functions perfectly now.
- 6) Students which reveal their real-time geolocation on public profiles are vulnerable to cyberstalking.
- 7) I remember the exact classroom environment where the teacher distributed the placement tests when.
- 8) The digital footprint where you leave behind on corporate websites is difficult to erase completely.
- 9) Dr. Green, that designed our new vocational training curriculum, is traveling abroad tonight.
- 10) This interactive whiteboard, who belongs to the technical department, needs calibration.
- 11) The undergraduate student, whom father works as an automated transit engineer, won the prize.
- 12) High school days, when were filled with traditional rote learning, are now a thing of the past.
- 13) Is this the smart city platform, whose you were demonstrating during the workshop session?
- 14) Foreigners which move to another country must strictly follow all local visa regulations.
- 15) The supportive neighbor, whom lent me his desktop computer, lives in the next apartment block.

Task 5. Sentence Transformation & Digital Synthesis

Combine or rewrite the sentences using the specific structures requested in the brackets.

- 1) I use a secure dating application. It implements a multi-step profile verification system. (Combine using a *Defining relative clause* with *which*)
- 2) Mark Zuckerberg founded Facebook. He studied at Harvard University. (Combine using a *Non-defining relative clause* with *who*)
- 3) This is a popular social venue. Young programmers gather here on Friday evenings. (Combine using *where*)
- 4) Cyberstalking is an internet crime. It can be prevented by managing your privacy settings. (Combine using *which*)
- 5) I know a brilliant digital nomad. His software startup was bought by an international IT hub. (Combine using *whose*)
- 6) You leave a digital footprint behind you. It can affect your professional education career. (Combine using *which*)
- 7) 2021 was the year. The municipality began converting our hometown into a smart city. (Combine using *when*)
- 8) Catfishing tricks vulnerable users. It is an unethical practice. (Combine using a *Non-defining relative clause* with *which*)
- 9) The technical assistant handles server maintenance. You met him at the fresher's week event. (Combine using *whom*)
- 10) Show me the smartphone. Its real-time geolocation tracker is currently turned on. (Combine using *whose*)
- 11) Traditional classrooms are changing fast. Interactive whiteboards are installed there. (Combine using *where*)
- 12) The student failed his intensive language course. He missed the final assignment deadline. (Combine using *who*)
- 13) We are implementing a tailored curriculum. It was approved by the ministry of education. (Combine using *which*)

- 14) This adaptive software calculates test results. It was developed by our technical alumni network. (Combine using a *Non-defining relative clause*)
- 15) I am editing fifteen sentences for Task 4. They must be grammatically flawless. (Combine using *which*)

TEMA 9. A Digital Era. Living with Computers

Grammar Focus: Passive Voice: Present and Past Simple (Describing System Automation, Hardware assembly & History of Tech).

Vocabulary: digital era, mainframe computer, microchip, ubiquity, system automation, hardware component, operating system, technical obsolescence, consumer electronics, technological breakthrough.

Reading Text: Evolution of Computing and Society

We currently live in a highly advanced digital era, where the ubiquity of computer systems shapes almost every aspect of human life. However, computing technology was not always so compact and accessible.

In the mid-20th century, a single mainframe computer occupied an entire room and required a team of specialized engineers to maintain its complex internal circuits. The invention of the microchip marked a monumental technological breakthrough, which allowed engineers to minimize hardware components and build personal computers.

Today, millions of consumer electronics are manufactured daily, and advanced system automation is utilized in factories worldwide to maximize production efficiency. Operating systems are constantly

updated to prevent technical obsolescence and block modern cyber threats.

For students pursuing a degree in professional education, studying the evolution of hardware and software frameworks is mandatory. Future digital technology instructors must explain how these historical computing shifts occurred, as modern teaching environments are entirely dependent on these digital architectures.

Task 1. Vocabulary & Context Clues

Fill in the blanks with the correct words: era, computer, microchip, ubiquity, automation, components, system, obsolescence, electronics, breakthrough, mainframes, networks, devices, software, hardware.

- 1) The modern digital _____ demands high level of technological literacy from primary school teachers.
- 2) In the 1960s, a vacuum-tube _____ computer was used primarily by government administrations.
- 3) Every modern smartphone contains a powerful silicon _____ that executes billions of calculations per second.
- 4) The sheer _____ of digital sensors makes modern smart cities highly responsive to traffic.
- 5) Industrial system _____ reduces human error margins inside automated automobile factories.
- 6) If a crucial hardware _____ like the motherboard fails, the desktop unit will not boot up.
- 7) An advanced operating _____ coordinates memory allocation between different open applications.

- 8) Rapid technical _____ means that computer processors become outdated within a few years.
- 9) Global consumer _____ companies are developing flexible screens for next-generation tablets.
- 10) The development of quantum computing represents a massive technological _____ for scientists.
- 11) Early corporate _____ were extremely heavy and generated massive amounts of heat.
- 12) Network administrators must secure all digital _____ against unauthorized database access.
- 13) Computer _____ engineering involves assembling circuit boards, power supplies, and storage units.
- 14) Educational _____ tools are frequently modified to improve online student engagement.
- 15) Millions of interactive _____ are connected to the global internet network every minute.

Task 2. Grammar Focus: Passive Voice (Present and Past Simple)

*Put the verbs in brackets into the **Present Simple Passive** or **Past Simple Passive**.*

- 1) The first personal computers _____ (introduce) to the public market in the late 1970s.
- 2) Today, millions of silicon microchips _____ (manufacture) in specialized global factories.
- 3) Our university digital registry _____ (protect) by a sophisticated fire-wall system every day.
- 4) Last year, several old mainframe computers _____ (donate) to the local technology museum.

- 5) Technical obsolescence _____ (cause) by the rapid development of faster hardware components.
- 6) The interactive whiteboards in our campus facilities _____ (calibrate) by technicians every morning.
- 7) The internet network _____ (not secure) properly when the database breach occurred yesterday.
- 8) Consumer electronics _____ (sell) in massive quantities during the black Friday shopping event.
- 9) A monumental technological breakthrough _____ (achieve) by quantum computing scientists in 2025.
- 10) The vocational training curriculum _____ (update) by our department heads three weeks ago.
- 11) Why _____ these real-time geolocation trackers _____ (utilize) by the mobile application?
- 12) The student's electronic portfolio _____ (not upload) successfully because the server failed.
- 13) Passwords _____ (encrypt) automatically before they are transmitted into the secure cloud network.
- 14) The code of conduct _____ (violate) when the student downloaded copyrighted software files.
- 15) How _____ your hometown's public utilities _____ (manage) before system automation was introduced?

Task 3. Professional Translation

Translate the following sentences into English using Present and Past Simple Passive Voice.

- 1) Цей кремнієвий мікрочіп (This silicon microchip) виготовляється (is manufactured) за допомогою автоматизації.

- 2) Перші мейнфрейми (The first mainframes) були створені (were created) для великих наукових лабораторій.
- 3) Налаштування приватності (Privacy settings) перевіряються (are checked) нашою системою щохвилини.
- 4) Минулого тижня цей старий комп'ютер був утилізований через технічне застарівання (technical obsolescence).
- 5) Операційна система (The operating system) оновлюється автоматично кожного місяця.
- 6) Цей технологічний прорив (This technological breakthrough) був тепло зустрінутий світовою тех-спільнотою.
- 7) Споживча електроніка (Consumer electronics) продається в усьому світі за допомогою цифрових платформ.
- 8) Усі апаратні компоненти (All hardware components) були ретельно протестовані техніком учора.
- 9) Чому цей студентський реєстр не був захищений (was not secured) паролем минулого року?
- 10) Правила соціального етикету завжди розглядаються під час підготовки до релокації.
- 11) Вступний тест (The placement test) був успішно пройдений тридцятьма абітурієнтами вчора.
- 12) Будь-яке порушення кодексу поведінки негайно фіксується (is recorded) нашою системою безпеки.
- 13) Цей індивідуальний навчальний план був розроблений (was developed) спеціально для майбутніх педагогів.
- 14) Мережевий роутер був налаштований моїм технічно підкованим батьком (by my tech-savvy father).
- 15) Як контролюється екранний час дітей (How is children's screen time controlled) у сучасних родинах?

Task 4. Error Correction (Proofreading)

Identify and correct one error in each sentence (look for passive form misuses, auxiliary verb slips, or vocabulary mismatches).

- 1) Silicon microchips are manufactured by specialized machines in the digital era twenty years ago.
- 2) The operating system was update by the technical assistant while we were doing our tasks.
- 3) Mainframe computers was utilized primarily by large banks and military administrations in the past.
- 4) Many modern consumer electronics is thrown away daily due to rapid technical obsolescence.
- 5) A significant technological breakthrough is achieved by a young programmer last Monday evening.
- 6) The secure digital registry are encrypted with an advanced twenty-eight-bit security code.
- 7) The classroom environment was completely modify by the installation of the interactive board.
- 8) Real-time geolocation data are often exploit by cyberstalkers if privacy settings are weak.
- 9) Why did the database assignment rejected by the automated learning management system?
- 10) The academic calendar was sign by the dean before the fresher's week orientation started.
- 11) Peer pressure is often experience by undergraduate students during their first semester on campus.
- 12) All hardware components was carefully assembled in the vocational engineering laboratory.

- 13) The intensive language course were designed by experienced curriculum development specialists.
- 14) Strict digital boundaries is established by tech-savvy parents to reduce children's screen time.
- 15) Our hometown's public utilities was transformed by the implementation of smart city software.

Task 5. Sentence Transformation & Digital Synthesis

Rewrite the sentences changing them from Active to Passive Voice or vice versa as indicated.

- 1) The technician calibrates the interactive whiteboards every morning.
(Change to *Passive voice*)
- 2) IBM engineers manufactured the first mainframe computers in the 20th century. (Change to *Passive voice*)
- 3) Cyberstalkers often exploit weak privacy settings on dating applications. (Change to *Passive voice*)
- 4) Our department head signed the new technical curriculum development draft. (Change to *Passive voice*)
- 5) The university registry automatically encrypts all undergraduate student records. (Change to *Passive voice*)
- 6) A serious hardware failure interrupted our system automation experiment. (Change to *Passive voice*)
- 7) Technical obsolescence forces consumers to buy new consumer electronics frequently. (Change to *Passive voice*)
- 8) The automated transit system manages traffic flows in this modern smart city. (Change to *Passive voice*)
- 9) International corporate hubs offer attractive relocation packages to programmers. (Change to *Passive voice*)

- 10) The technical assistant did not configure the server firewall properly before the attack. (Change to *Passive voice*)
- 11) These complex database algorithms are checked by the software developer every Friday. (Change to *Active voice*)
- 12) A massive technological breakthrough was achieved by our university alumni network. (Change to *Active voice*)
- 13) The placement tests were evaluated by an advanced AI software application. (Change to *Active voice*)
- 14) Digital boundaries are established by tech-savvy parents to combat sibling rivalry. (Change to *Active voice*)
- 15) Fifteen sentences for Task 5 were successfully transformed by the undergraduate student. (Change to *Active voice*)

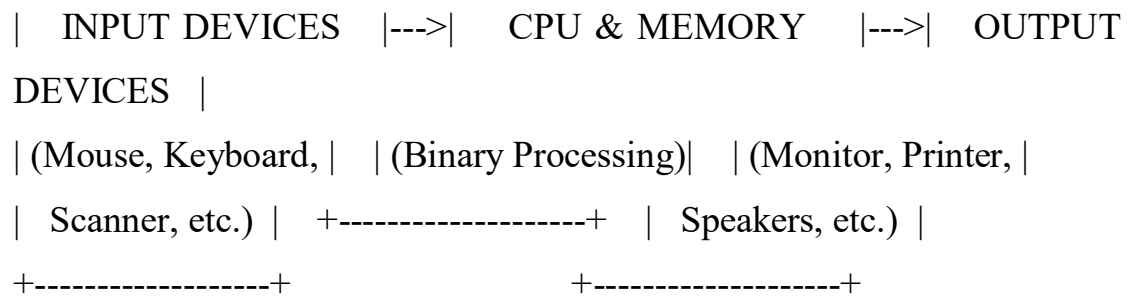
Topic 10: A Typical PC. Input and Output Devices

1. Reading Text

The Architecture of Interaction: Hardware Ecosystems

At the core of any computing system lies the interaction between the Central Processing Unit (CPU), memory, and the peripherals that bridge the gap between human intent and digital execution. A typical Personal Computer (PC) relies on a modular architecture where components communicate via the motherboard's bus system. To process data, the system requires input devices to translate physical user actions into binary code, and output devices to convert processed binary data back into a human-readable or physical format.





Traditionally, the keyboard and mouse serve as the primary input devices, utilizing mechanical or optical switches to send interrupt requests to the OS. However, modern digital workplaces require advanced input peripherals like digitizing tablets, eye-tracking sensors, and biometric scanners, which leverage specialized drivers to interpret complex analog signals.

Conversely, output devices handle data dissemination. The visual interface is dominated by liquid crystal displays (LCD) or light-emitting diode (LED) monitors, where performance is measured by pixel density, refresh rate, and color accuracy. For physical output, impact-free printers (such as laser and inkjet) utilize raster image processors to translate digital layouts onto paper. For future educators and IT professionals, understanding the data transfer rates (throughput), interface types (e.g., USB-C, Thunderbolt, HDMI), and hardware compatibility is essential for optimizing workstation performance and troubleshooting hardware bottlenecks.

2. Essential Vocabulary

Peripheral (n.) – any auxiliary hardware device that connects to and works with the computer to either put information into it or get information out of it.

Interrupt Request (IRQ) (n.) – a hardware signal sent to the processor that temporarily stops a running program to allow a special piece of code to run instead.

Throughput (n.) – the amount of data moved successfully from one place to another in a given time period.

Bottleneck (n.) – a component or point in a system that limits overall performance or data transfer because it cannot process data as fast as other components.

Raster Image Processor (RIP) (n.) – a component used in a printing system that translates a digital image or layout into a bitmap (raster image) that a printer can actually output.

Digitizing Tablet (n.) – an input device that enables a user to hand-draw images, animations, and graphics with a special pen-like stylus.

3. Tasks and Exercises

Task 1: Terminology Matching

Match the hardware component or concept (1-5) with its exact technical description (A-E).

- 1) Thunderbolt interface
- 2) Biometric scanner
- 3) Refresh rate
- 4) Motherboard bus
- 5) Optical switch

A. A communication system that transfers data between components inside a computer or between computers.

B. A high-speed hardware interface that combines data, video, and power sync into a single compact connector.

C. An input peripheral that captures and verifies unique physiological characteristics of a human for security.

D. The number of times per second a monitor updates the image on the screen, measured in Hertz (Hz).

E. A mechanism that uses a light beam to detect an input trigger, offering faster response times than traditional mechanical contacts.

Task 2: Sentence Completion

Fill in the blanks using the words from the *Essential Vocabulary* block. Change the form of the word if grammatically necessary.

- 1) When upgrading a video editing workstation, a slow mechanical hard drive often becomes the main system _____, regardless of how fast the CPU is.
- 2) The network administrator monitored the data _____ to ensure the laboratory network could handle rendering heavy 3D files.
- 3) Designers prefer using a _____ because it offers pressure sensitivity that a standard mouse simply cannot replicate.
- 4) If a printer receives a complex vector file, its internal _____ must convert the lines into dots before the laser can apply toner to the drum.
- 5) External storage drives, webcams, and microphones are all categorized as computer _____.

Task 3: Technical Problem Solving (Case Study)

Read the scenario and answer the questions below in writing (3-4 sentences per answer).

Scenario: A vocational school installs a new digital design lab. The computers are equipped with top-tier CPUs and RAM, but the monitors use older VGA connections, and the input devices are basic office mice. Students complain that their vector drawing lines are "jagged and laggy," and the colors on their screens do not match their test printouts.

Analyze the hardware configuration and identify where the hardware bottlenecks are occurring.

What specific input and output upgrades (including interface types) should the IT instructor recommend to fix the lag and color mismatch?

Task 4: Instructional Design Prompt (Micro-Teaching)

Prepare a short outline (up to 200 words) for a 10-minute micro-lesson aimed at vocational high school students. The topic is: *"How to choose between a laser printer and an inkjet printer based on operational costs and print technology."* Your outline must include an opening hook, a comparison of the two technologies, and one quick comprehension check question.

Topic 11: Health and Safety

1. Reading Text

Ergonomics and Occupational Safety in Digital Environments

The rapid digitization of educational and professional spaces has shifted occupational health hazards from traditional physical risks to repetitive

psychological impact of digital fatigue, which requires structured break intervals and workload management strategies.

2. Essential Vocabulary

Repetitive Strain Injury (RSI) (n.) – damage to muscles, tendons, or nerves caused by repetitive motions, constant vibrations, or long periods in awkward positions.

Musculoskeletal Disorder (MSD) (n.) – injuries or pain in the human musculoskeletal system, including joints, ligaments, muscles, nerves, and structures that support limbs and the back.

Static Muscle Loading (n.) – a physical state where muscles remain contracted or tense for a long duration without movement, restricting blood flow.

Computer Vision Syndrome (CVS) (n.) – a group of eye and vision-related problems that result from prolonged computer, tablet, e-reader, and cell phone use.

Luminance (n.) – the intensity of light emitted from a surface per unit area in a given direction; the objective measurement of brightness.

Lumbar Support (n.) – a component, usually built into an office chair, designed to support the lower back and maintain the natural inward curve of the lower spine.

3. Tasks and Exercises

Task 1: True or False?

Read the statements below and determine if they are True (T) or False (F) based on the text. Correct the false statements.

- 1) Computer Vision Syndrome can be prevented by ensuring the monitor is placed above eye level to increase blinking.
- 2) Static muscle loading is caused by rapid, explosive physical movements during computer assembly.
- 3) Ergonomics is defined as the practice of adapting the human body to fit rigid, unchangeable machine interfaces.
- 4) The 20-20-20 rule is specifically designed to minimize the risk of developing eyesight fatigue and strain.
- 5) Managing cable layouts is considered part of psychological health safety rather than physical safety.

Task 2: Contextual Vocabulary Cloze

Choose the correct technical term from the box below to complete the sentences.

RSI | lumbar support | MSDs | glare reduction | static muscle loading

- 1) Adjusting the tension of your office chair helps prevent _____ by allowing subtle movements while sitting.
- 2) Without proper _____, a worker is highly likely to experience lower back pain within the first month of full-time computer work.
- 3) Using a mechanical keyboard with heavy switches without a wrist rest can accelerate the onset of _____ in the fingers and wrists.
- 4) Employees who work directly under bright overhead fluorescent lights often require _____ filters installed on their screens.

- 5) Regular physical breaks and stretching exercises are proven methods to reduce the incidence of occupational _____ among software developers.

Task 3: Ergonomic Audit (Practical Analysis)

Imagine you are an IT teacher auditing a student computer lab. You observe the following conditions:

- 1) *The tables are fixed-height (75 cm), and students of all heights use non-adjustable wooden chairs.*
- 2) *Monitors are placed directly on the desks, forcing students to tilt their heads downward.*
- 3) *The room has large windows behind the student chairs, causing bright reflections on the glass screens.*

Write an ergonomic assessment report (120-150 words) detailing the specific health risks (using vocabulary from the text) and propose three immediate, cost-effective adjustments.

Task 4: Discussion Prompt

With the rise of remote work and distance learning, "digital fatigue" and poor home-office ergonomics have become major issues. Prepare 3 deep-dive discussion questions that an instructor can use to start a debate on the topic: *"Who is responsible for the health and safety of a digital professional: the employer/educational institution or the individual?"*

Topic 12: Graphics and Design

1. Reading Text

Digital Visualization: Paradigms, Formats, and Design Systems

Digital graphics form the visual infrastructure of user interfaces, educational media, and digital software products. In the realm of digital technology, visual content is divided into two primary rendering paradigms: vector graphics and raster (bitmap) graphics. Understanding the structural differences between these models dictates how digital assets are managed, scaled, and optimized for different deployment platforms.

GRAPHICS PARADIGMS	
RASTER (BITMAP) GRAPHICS	VECTOR GRAPHICS
- Pixel-grid based	- Mathematical formulas
- Resolution-dependent	- Resolution-independent
- Ideal for continuous tones (photos)	- Ideal for logos & typography
- Formats: JPEG, PNG, WebP	- Formats: SVG, AI, EPS

Raster graphics map color values onto a rigid grid of pixels. They are resolution-dependent; scaling an image upward forces the rendering engine to interpolate pixels, resulting in pixelation and a loss of high-frequency details. Common web formats include compressed JPEG for photographs and PNG for images requiring alpha-channel transparency.

Conversely, vector graphics define visual elements using mathematical formulas representing paths, control points, and geometric primitives. Vectors are resolution-independent, meaning they can be scaled infinitely without any degradation in fidelity, making formats like Scalable Vector Graphics (SVG) the industry standard for responsive web iconography and user interface (UI) components.

For digital educators, grasping these graphic principles is closely tied to mastering user experience (UX) design, layout grids, color spaces (such as RGB for digital displays and CMYK for print production), and typography hierarchy. Combining these technical elements effectively allows for the creation of digital content that is both accessible and visually engaging.

2. Essential Vocabulary

Pixelation (n.) – a visual effect caused by the display of a bitmap or a section of a bitmap at such a large size that individual pixels are clearly visible to the eye.

Resolution-Independent (adj.) – able to scale to any size or be output on any device at any resolution without losing quality or changing proportions.

Interpolate (v.) – to estimate or calculate intermediate values within a digital image to fill gaps when resizing or modifying pixels.

Alpha Channel (n.) – a color component or data channel that designates the level of transparency or opacity assigned to a color in a digital image file.

Geometric Primitive (n.) – the simplest geometric shape (such as a point, line, circle, or polygon) that a computer graphics system can handle and draw.

Fidelity (n.) – the degree of exactness with which something is copied, reproduced, or rendered compared to the original source data.

3. Tasks and Exercises

Task 1: Technical Distinction (Short Answer)

Based on the text, answer the following technical questions briefly (1-2 sentences).

- 1) Why does an SVG file maintain perfect fidelity when displayed on a high-definition 4K monitor versus a low-resolution phone screen?
- 2) What happens when a rendering engine is forced to *interpolate* data during an image upscale operation?
- 3) In what scenario would a designer choose a PNG format over a JPEG format for a web graphic?

Task 2: Design Scenario Vocabulary Integration

Complete the paragraphs using words from the *Essential Vocabulary* block.

When developing the assets for a new educational website, the UI designer insisted that all icons must be created as vectors. This ensures that the interface remains completely _____ (1) across different device resolutions. If they used low-resolution raster images instead, users on modern screens would immediately notice ugly _____ (2) around the edges of buttons. For the primary logo, the designer used combinations of circles and lines, which are standard _____ (3). To allow the logo to sit smoothly over various background videos, they made sure the export settings included an _____ (4) to provide clean transparency. The end goal was to ensure maximum visual _____ (5) across both mobile web apps and large presentation screens.

Task 3: Comparative Analysis Matrix

Copy and complete the comparison table below based on your technical knowledge of graphics processing and design standards.

Feature / Metric	Raster Graphics	Vector Graphics
Underlying Structure	Grid of colored pixels	Mathematical formulas/paths
File Formats (give 2)		
Scalability Behavior		Infinitely scalable without quality loss
Primary Use Case	Digital photography, complex artwork	
File Size Determinant	Grid dimensions (width x height) & depth	Number and complexity of paths/nodes

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