# 12 The Internet, Email

# **Topic**

Getting online, Internet, email, online banking

# Learning objectives

#### Students will be able:

- to understand how the Internet works.
- to give a brief description of what the Internet is
- to explain the term World Wide Web
- to list requirements for a connection to the Internet
- to list typical customer services provided by an Internet Service Provider
- to explain in detail how to use a search engine to locate information
- to acquire vocabulary and collocations related to the Internet
- To learn about the basic ideas related to security and privacy on the Internet
- to explain what electronic mail is
- to describe how email works
- to acquire vocabulary related to online banking and internet shopping

#### Key words

Modem, Internet Service Provider (ISP), wireless router, online, TCP/IP, IP address, broadband, ADSL, Wi-Fi, wireless access point, hotspot, power-line Internet, email, FTP (file transfer protocol), newsgroups, Telnet, chat and instant messaging, mail server, username, @, domain name, attachment, emoticon, smiley, spam, search engine, e-commerce, online banking, account, balance, interest, fraud, authentication, PIN, username, password, TAN, biometric authentication

#### What is the Internet?

The Internet is an International computer Network made up of thousands of networks linked together. Some of the



computers on the Internet are small PCs, while others are huge supercomputers. All these computers communicate each other, share data, resources, transfer information, etc. To do it they need to use the same language or protocol: TCP/IP (transmission Control Protocol/Internet Protocol) which is like the internet operating system. Every computer is given an IP address. This address is a way to identify the computer on the Internet and is composed of four numbers, each between 0 and 255, separated by dots.

# **Getting connected**

To use the Internet we basically need a computer, connection software and a modem to connect your computer to a telephone line and then access your ISP (Internet Service Provider). We also need an account with an Internet Service Provider (ISP).

The modem (modulator-demodulator) converts digital signals stored in the computer to analogue signals so that data can be transmitted across the phone or cable network. There are two basic types:

- external plugged into the computer via a USB port
- internal an expansion card inside the computer

Today ISP offer a broadband, high-speed connection. The most common types are:

- cable offered by local cable TV companies
- ADSL (Asymmetric Digital Subscriber Line) works through phone lines

Other methods of Internet access include Wi-Fi, satellite, mobile phones and TV sets equipped with a modem.

Broadband access is also allowed by some electricity networks. This competing technology known as **power-line Internet**, provides low-cost access via the power plug, but is still in development.

**Wi-Fi**- enabled laptops and PDAs allow you to connect to the net if you are near a **wireless access point**, in locations called **hotspots** (for example a Wi-Fi café or a campus). Satellite services are used in places where terrestrial access is not available (for example at sea).

# **Components of the Internet**

The internet consists of many systems that offer different facilities to users.

**WWW, the World Wide Web** is a collection of files or pages containing links to other documents on the Net. They use the HTTP protocol. You navigate through the web using a



program called a web browser.

**Email** – electronic mail allows users to exchange messages and attached files which can include text, pictures, audio.

**Chat and instant messaging** allow you to have realtime conversations online by typing messages at the keyboard.

**FTP** – File Transfer Protocol is used to transfer files over a TCP/IP network. Nowadays it is built into Web browsers. You can download programs, games and music files from a remote computer to your hard drive.



**Telnet** is a program that enables a computer to function as a terminal working from a remote computer and use online databases for example library catalogues.

**Newsgroups** are the public discussion areas which make up a system called the Usenet. The contents are contributed by people who post articles or respond to articles, creating chains called message threads. You need a newsreader to subscribe to newsgroups and read and post messages. The newsreader can be a part of a web browser.

A thread is a string of text based messages, from the first one that started the topic up to the latest one. The first 'emoticons' such as :) (smiling face) appeared here and even before the mobile phone was invented, people were using text shortcuts such as IMHO (In My humble Opinion) or ROLF (Roll on Floor Laughing).

Some newsgroups are 'moderated' meaning someone is controlling what can and cannot be posted in that newsgroup.

**Internet telephone** is a system that allows people to make phone calls via the Internet

**Video conference** is a system allowing the transmission of video and audio signals in real time. A video conference is a 'meeting' between two or more people who are in separate geographical locations.

It is made possible by the use of video monitors, specialist software, fast broadband connection and satellite technology.

People in different locations are able to see and hear one another and thus hold a meeting as if they were in the same room.

#### **Email**

When you set up an account with an Internet Service Provider, you are given an **email address** and a **password.** You send an email to a **mail server** where it is stored in a **mailbox**, which holds incoming mail until the recipient downloads it. The mail you receive is stored



on the mail server until you next connect and download it to your hard drive.

There are two ways of using email:

- Mail program installed on your computer (for example Outlook Express)
- Web-based email accessible from any web browsers (Gmail, Hotmail, Seznam...)

A typical email address has three parts:



An email usually has two parts:

• The **header** includes:

**TO** – name and address of the recipient

**CC** – carbon copy sent to another addressee

**SUBJECT** – topic of the message

**ATTACHMENT** – files added to the message

The body – the message itself

You can make your message more impressive by using **smileys** (**emoticons**) – little pictures made with characters from the keyboard or downloaded images.

**Spam** – junk email, an unwanted message. In legal terms it means to send 'unsolicited commercial email'

This term is used because the vast majority of spam is sent in order to try and persuade you to buy something.

Many ISP email packages offer 'spam filters' that try to prevent these emails getting through to your inbox, but it is a very difficult problem to separate spam from wanted emails. Your email service may have a 'Bulk' or 'Junk' box that contain the diverted spam. It is then up to you to have a look to see if there are some real emails accidentally caught by the filters.

A **mailing list** is a collection of names and addresses used by an individual or an organization to send material to multiple recipients. The term is often extended to include the people subscribed to such a list, so the group of subscribers is referred to as "the mailing list", or simply "the list".

# **Online banking**

performing banking transactions via the Internet. Online services can be provided by traditional banks, so called brick-and-mortar banks – using the new technologies they become "brick-and-click banks. Banks that don't have physical branches or ATMs are called virtual or Internet banks.

To use the services a user needs a computer with Internet access. Online banking can be used to pay bills, transfer money to various accounts, check account balances, trade stocks, etc.

Most online banks have the concept of two-factor **authentication**; it means that they use at least two different devices or layers of security to prevent fraud.

When anybody opens an account, he or she is given a confidential **PIN** (personal identification number), a password and a username.

For some transactions, customers have to use a **TAN** – transaction authorisation number from a list provided by the bank, which acts as a second password.

One of the best ways of identifying the user of a bank account is **biometric** authentication – using for example a fingerprint to allow a person to log in.

Safety precautions:

- Never give your PIN to anyone
- Be aware of phishing
- Invest in some good anti-spy software

#### Vocabulary

	Definition	Translation
@	at sign, the sign that separates the username from the domain name in email address	an zavináč

ADSL	Asymmetric Digital Subscriber Line, a broadband communication technology that allows a single phone connection to be used for both internet service and voice calls at the same time	asymetrická digitální účastnická linka
attachment	a file that has been included as a part of an email message	příloha
broadband	high-speed transmission	širokopásmový přenos
domain name	a name identifying an internet site, consisting of two parts separated by dots	doména
email	short for electronic mail, the facility which allows users to exchange messages electronically	elektronická pošta
emoticon	a face made from punctuation characters to express emotions in email messages = smiley	emotikon, smajlík
FTP (file transfer protocol)	a standard for transferring files from one computer to another over a network	
hotspot	the geographic boundary covered by a Wi-Fi wireless access point	
chat	a real time interactive conversation on the Internet	čet
instant messaging	exchanging text messages in real time between two or more people logged into IM service	
Internet Service Provider (ISP)	the company which gives you access to the Internet	poskytovatel internetu
IP address	a number which identifies a computer on the Internet	IP adresa
mail server	the computer where your Internet Service Provider stores your emails	poštovní server
modem	a device that converts digital signals into analogue signals	modem
newsgroups	the public discussion areas on the Internet	internetové fórum
online	connected to the Internet	připojený k síti
password	a secret word which must be entered before access is given	heslo
power-line Internet	a technology that provides low-cost internet access via the power plug	přenos přes rozvody elektrické energie
search engine	a program that allows users to search a large database of web addresses and internet resources	vyhledávač

Smiley	a face made from punctuation characters to express emotions in email messages = emoticon	smajlík	
spam	unsolicited junk email	nevyžádaný mail	
TCP/IP	abbreviation for Transmission Control Protocol, the official standard that determines the form of the signals used for transmitting data on the Internet		
Telnet	the program that is used to log into a remote computer system, which enables you to run programs kept on them	telnet	
username	the part of an email address that identifies the user	uživatelské jméno	
Wi-Fi	a type of network that makes use of radio channels to connect either to a local area network (LAN) or a router linked to the Internet. Companies often have a Wi-Fi system installed inside their buildings. Then visitors and workers with laptops can instantly connect to their LAN.	bezdrátová komunikace v počítačových sítích	
wireless	without the use of cables	bezdrátový	
wireless access point	a device that connect wireless communication devices together to form a wireless network	bezdrátový přístupový bod	
authentication	verifying the identity of a user logging onto a network	ověření, potvrzení pravosti	
balance	the amount of money that remains in an account at a given date	zůstatek	
biometric authentication	identification based on physical features - fingerprints, voice scan, etc.	biometrické ověření	
decryption	the process of decoding secret data	dekódování	
digital certificate	a file that identifies the user or a web server	digitální certifikát	
e-commerce	the buying and selling products on the Internet	elektronické obchodování	
encryption	the process of saving and transmitting data in encoded form	kódování, šifrování	

fraud	something intended to deceive	podvod
		Pata santa 1
online banking	performing money transactions and payments through a bank' website	internetové bankovnictví
3		
	a secret word which must be entered	
password	before access is given	heslo
		podvodné online
	getting passwords of online bank accounts	vylákání a zneužití
phishing	or credit card numbers using fake emails	osobních údajů
		osobní identifikační
PIN	Personal Identification Number	číslo
TANI	Transaction Authorization Number	
TAN	Transaction Authorization Number	
	the many view identify view and find a second	
	the name you identify yourself when you	¥:مئماماد، ذخب
username	log onto a computer system or a network	uživatelské jméno

# Summary

The Internet is an International computer Network made up of thousands of networks linked together.

These computers need to use the same language or protocol: TCP/IP (transmission Control Protocol/Internet Protocol) which is like the internet operating system. Every computer is given a unique IP address.

To use the Internet we basically need a computer, connection software and a modem. We also need an account with an Internet Service Provider (ISP).

The internet consists of many systems that offer different facilities to users, for example: the World Wide Web, email, chat and instant messaging, FTP, Telnet, Newsgroups, Internet phone, video conferencing, etc.

Email – electronic mail allows users to exchange messages and attached files which can include text, pictures, audio.

There are two ways of using email:

- Mail program installed on your computer (for example Outlook Express)
- Web-based email accessible from any web browsers (Gmail, Hotmail, Seznam...)

Online banking is performing banking transactions via the Internet.

Online banking can be used to pay bills, transfer money to various accounts, check account balances, trade stocks, etc. When anybody opens an account, he or she is given a confidential PIN (personal identification number), a password and a username.

For some transactions, customers have to use a TAN – transaction authorisation number from a list provided by the bank, which acts as a second password.

#### Tasks

#### 1) What Internet component should the following people use?

- a) "I have a girlfriend abroad and I love hearing her voice. I am a student and I don't have much money."
- b) "I want to borrow a certain book from the library, I can't afford wasting time and I want to make sure that the book is available just now."

- c) "I want to read people's opinions about computer-related topics and express my views."
- d) "I was invited to a meeting in Australia but I can't take part in it. However I'd really like to see what's going there."
- e) "I am an English teacher and I want my students to send me their essays and so that I can check it and send it back."
- f) I have moved to a small village. I wish I had chance to talk to my former friends."
- g) I have just created a web page and want to transfer data to my reserved web space."

## 2) Listening: Infotech p. 79: Listen and complete the notes

To connect to the Interv (1) a		,
Also need an account no offers connection for a p	ith an (3)	(a company that
If you want to connect (4)		ut using cables, you can use a
Wi-Fi uses (5)range distances.	waves	to send data over medium-
Things you can do on th	ne Internet:	
Web or Internet? The	Neb: huge collection of	(7)
	over the world. The Int	ernet: the network which

#### 3) Find words with the following meaning in the text above:

- a) The line that describes the content of an email
- b) A series of interrelated messages on a given topic
- c) A file that has been included as a part of an email message
- d) The place where your ISP stores your emails
- e) The part of an email address that identifies the user
- f) Facial symbols used to indicate emotions and attitudes
- g) The name given to junk mail"
- h) The company which gives you access to the Internet
- i) A real time interactive conversation on the Internet
- i) A number which identifies a computer on the Internet
- k) The part of the email address that identifies the server

- I) The part of email address that separates the username from the domain name
- m) A secret word which must be entered before access is given
- n) The public discussion areas on the Internet

,	te the convers				e Provider (ISF 6.	') and
<mark>email</mark>		am IP	-			<mark>ider</mark>
<mark>username</mark>		internet		<mark>ments</mark>	messaging	file
tran	sfer protocol	<mark>newsgrou</mark> j	os broad	<mark>dband</mark>	mail program	
ISP Helpdes	sk Operator (	HO): Custome	er support, g	ood morn	ing.	
Customer (	<b>C):</b> Yeah, hi. V	Vho am I spea	ıking to?		_	
HO: My nam	ne's Martin. Ho	ow can I help?	J			
C: I'm having online.	g some proble	ms with my (1	)	conn	ection. I can't ge	:t
HO: OK. I'm address	sure I can he	lp. Let me just	quickly che	ck your (2	2)	
	) Mhat door th	of moon?				
•	What does the		that identifi	00 VOUR 00	moutor when it's	•
	ust wait a sec				omputer when it's plugged in a	
C: Is that the phone line?	e same as the	(4)	router?	? The thin	g that plugs into	the
HO: Yes. Ar	e the lights fla	shing?				
C: Yes, they	r're flashing re	ally fast.				
HO: OK. Jus	st turn the rout	er off and on a	at the back.	Is it worki	ng now?	
C: Yes, it is.	Why did that	happen?				
<b>HO:</b> It's nothing serious – sometimes you just need to reset the router. Is there anything else I can help you with?					е	
C: Actually, yes. I'm paying all this money for one of those fast, what do you call						
them, (5) connections, but all I'm using the computer for is checking						
			ation on the	(7)	What	else
can I do with	all this techno	ology?				
				? You kno	w, having real-ti	me
	iends over the		1 121 41		. 4-	
<b>C:</b> How old do you think I am? That sounds like the kind of thing my 15-year-old son would be into, not me!						
		aur aannaatia	oO If it's year	v foot the	n vou oon toko	
<b>HO:</b> OK, well how fast is your connection? If it's very fast, then you can take advantage of (9) – that means downloading files from the Internet						
onto your hard drive. It's a feature that is built into your web (10), so						
it's very easy to use. You can download music, films, anything you want, really.						
C: That sounds expensive. How much does it cost to download a song?						
<b>HO:</b> It depends on the site. Another thing you might want to try is (11)						
– public discussion areas on nearly any topic. It's part of a system called Usenet.						

– that's a progra	m that lets you viev	v and post
and passw	ord. It's all very eas	sy.
	<del>-</del>	
terested in a new pr	oduct we've launch	ed this week.
you use?		
anti-(15)	software that he	elps detect junk
that's how vir	uses are normally s	sent between
a month and		
how to prevent spa	am, use the follow	ing words:
email address	newsgroups	spammers
email or click	on a link within an e	email – this will
	nywhere on the Inte	ernet
• •	•	J1110t,
		la ta traali thair
• •		ne to track their
	•	-
e your phone numb	er – don't give it ou	ıt randomly. Try
en channing anline		
	and passwiting. Thanks for all . terested in a new property you use?  anti-(15) anti-(15) — that's how virus a month and  how to prevent spanning address described displayed and at rooms or any website of other people could end up losing on a unle your phone numbers.	enti-(15) software that he swords in the subject line of the email – that's how viruses are normally so a month and  how to prevent spam, use the follow email address newsgroups email or click on a link within an example

# 6) What language does the following conversation use? Translate it into English.

Will: How r things?

Nick: Good, thanks. u?

Will: Not bad. Need 2 talk ASAP 2 discuss the new website.

Nick: OK. F2F or on the phone?

Will: Meet 4 coffee? I need 2 get out of the house! LOL

Nick: IC! cu at the café at 3.30?

Will: Great. BFN.

http://www.cambridge.org/cz/elt/teachers/zones/

# 7) Translate the following abbreviations into the language of "ordinary" people.

LOL, IMHO, ASAP, ROFL, AFAIK, PEBKAC, FYI, BRB, BBS, ČKD, I H8 U, IC, L4, L8R, MYOB, RUOK?, W8, 2L8, F2F, TIA, IOW,

http://cs.wikipedia.org/wiki/Seznam zkratek v online diskus%C3%ADch

## 8) Listening: Infotech p. 87

# E-commerce and online banking

A Listen to two extracts from a monthly podcast called *Money Matters*. What is each speaker talking about?

Speaker 1	Speaker 2

# B Listen again and make notes under these headings.

	Speaker I	Speaker 2
7.51	Things people buy online	Things you can do with online banking
	Steps for buying online	Biggest issue with online banking
	Precautions	Precautions
h		

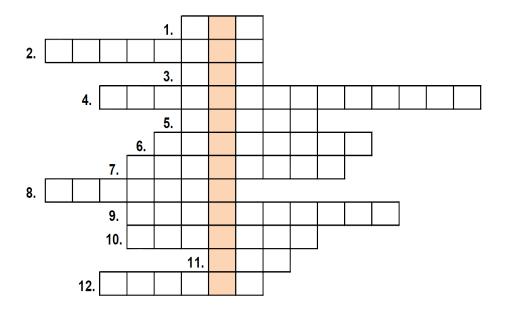
# Complete the extracts with words from the box

	authorization fake internet auction shopping cart browse log in steal		
1	Occasionally I also buy things on sites such as eBay, where people offer and sell things to the highest bidder.		
2	First you enter a site dedicated to e-commerce and their products.		
3	Then you put the items you want to buy into a virtual – a program that let you select the products and buy with a credit card.		
4	You may have to with a username and a password		
5	for some transactions, you will be required to use a TAN, a transactionnumber.		
6	Be aware of <i>phishing</i> – you may receiveemails claiming to be from your bank and asking for personal information or account details in an attempt toyour identity.		

## 9) Complete the puzzle: solution = a very important item of banking services.

- 1. Personal Identification Number
- 2. Getting passwords of online bank accounts or credit card numbers using fake emails
- 3. A machine that dispenses money when a personal coded card is used
- 4. Verifying the identity of a user logging onto a network
- 5. Something intended to deceive
- The name you identify yourself when you log onto a computer system or a network

- 7. A secret word which must be entered before access is given
- 8. Your money in a bank is deposited on an a.........
- 9. The process of saving and transmitting data in encoded form
- 10. The amount of money that remains in an account at a given date
- 11. Transaction Authorization Number
- 12. Someone who invades a privacy of a network



## 10) Discuss advantages and disadvantages of World Wide Web and Email.

#### Follow the stages:

Stage 1: Make a list of 'pros' and 'cons'.

**Stage 2:** Work in groups. Discuss the pros and cons. Use expressions from the box.

EXPRESSING AN OPINION		
Myslím.	I think.	
Osobně si myslím	Personally I think	
Opravdu si myslím	I really think	
Podle mého názoru	In my opinion	
SOUHLAS		
Myslím, že ano.	I think so.	
Docela souhlasím, ale	I quite agree but	
Souhlasím s vámi.	I agree with you.	
To je ono.	That's it.	
No právě.	Well, that's the point.	
Máte pravdu.	You are right.	
Jsem si tím jist.	I am sure about it.	
Obávám se, že ano.	I'm afraid so.	

**NESOUHLAS** 

Nesouhlasím s vámi. I don't agree with you.

Jsem proti tomu. I am against it.

Ne, naopak.

Myslím, že ne.

No, on the contrary.
I don't think so.

Nesmysl. Nonsense.

Nemáte pravdu. You are mistaken.

You are wrong.

#### Questions:

- 1. Define what internet is.
- 2. What is IP address?
- 3. What is a modem used for?
- 4. What are the most common types of high-speed Internet connection?
- 5. What is power line Internet?
- 6. What devices and software does a user need to connect to the Internet?
- 7. Which customer services are typically offered by an Internet Service Provider?
- 8. What is chat and instant messaging?
- 9. What is FTP?
- 10. What does the term World Wide Web refer to?
- 11. What is Telnet?
- 12. What are newsgroups?
- 13. What is a "thread"?
- 14. What is video conferencing?
- 15. What is an email, how does it work?
- 16. What parts does the email address consist of?
- 17. What parts does an email contain?
- 18. What are "smileys? What function do they have?
- 19. What is "spam"?
- 20. What is a spam filter?
- 21. Describe how you would use a search engine to find information on the World Wide Web.
- 22. What does the abbreviation TCP/IP stand for?
- 23. What does the abbreviation ISP stand for?
- 24. What does the abbreviation ADSL stand for?
- 25. What does the abbreviation FTP stand for?
- 26. What does the abbreviation http stand for?
- 27. What does the abbreviation URL stand for?
- 28. What is online banking?
- 29. What is an ATM?
- 30. What bank transactions can be carried out online?
- 31. What is the authentication?

- 32. What does the abbreviation PIN stand for? Explain it.
- 33. What is a password?
- 34. What is a username?
- 35. What does the abbreviation TAN stand for? Explain it.
- 36. What is the biometric authentication?

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