Sònia Oliver del Olmo Mònica Soler Lorente

A Self-study Grammar Book for Engineers

Sònia Oliver del Olmo Mònica Soler Lorente

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En col·laboració amb el Servei de Llengües i Terminologia de la UPC

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PREFACE

A Self-Study Grammar book for Engineers és un projecte que sorgeix de la necessitat real de millorar el nivell d'anglès de l'alumnat universitari actual i d'adquirir un vocabulari bàsic però específic en cada camp, sobretot en les carreres tècniques.

Vam veure que seria molt útil recollir i sintetitzar tota la informació que l'alumne necessitava en una sèrie d'unitats gramaticals puntuals, amb exercicis complementaris adients i les solucions respectives per tal de motivar l'autoaprenentatge i l'auto avaluació tal com suggereix el *European Portfolio* per a l'aprenentage de llengües estrangeres.

A més, tenint en compte l'obligatorietat del domini d'una tercera llengua dins l'àmbit universitari català i pensant tant en els alumnes autòctons com en els estrangers d'intercanvi (Erasmus, etc.), hem inclòs exemples tant en català com en castellà en les nostres explicacions per unitats. Els exercicis s'han pensat per posar en pràctica determinats aspectes de la llengua anglesa dins un context específic, i el fet de disposar de les claus permet a l'alumne prioritzar les unitats que ha d'estudiar segons la necessitat personal de cada moment.

D'altra banda, el llibre proporciona un glossari específic de temes relacionats amb els àmbits de l'enginyeria, el comerç, la banca, etc., qué és molt útil com a referència i com a base sòlida de vocabulari per a fins específics, i conté la traducció bilingüe (català-castellà). Dins l'appèndix, hem inclòs taules de conversió, verbs irregulars, *phrasal verbs*, etc.

Per últim, al final del llibre s'indiquen una sèrie de webs i enllaços recomanables per a l'aprenentage de l'anglès com a llengua estrangera i s'especifica la bibliografia bàsica utilitzada. Creiem que és un llibre compacte, sintètic, pràctic i entenedor, molt útil per a tots els estudiants universitaris i, d'una manera especial, per als de ciències.

Sònia Oliver del Olmo i Mònica Soler Lorente Barcelona Març 2003 1. Present Simple

1. PRESENT SIMPLE

The English present simple tense is used in Science so as to describe regular actions and processes, general issues and factual statements including observations. It is not used while describing experiments.

USE	EXAMPLES
REGULAR ACTIONS AND PROCESSES: (Often with an adverb of frequency or a frequency expression)	 E. Our scientists work 40 hours a week. C. Els nostres científics treballen 40 hores per setmana. S. Nuestros científicos trabajan 40 horas a la semana.
2. GENERAL STATEMENTS: (To express a fact which is always true)	E. Water boils at 100°C. C. L'aigua bull a 100°C. S. El agua hierve a 100°C.
3. FACTUAL STATEMENTS AND OBSERVATIONS: (To describe facts and situations that we see as permanent)	E. The liquid in the test tube weights 9 g. C. El líquid que hi ha dins el tub d'assaig pesa 9 g. S. El líquido que está dentro del tubo de ensayo pesa 9g.
4. DESCRIPTION OF EXPERIMENTS: (Commonly used to describe present research and discoveries)	 E. The filter paper then collects the impurities. C. Aleshores, el paper de filtre recull les impureses. S. Entonces, el papel de filtro recoge las impurezas.

PRESENT SIMPLE EXERCISES

EXERCISE 1. Give the correct present simple form of the verb in parentheses.

- 1. The UPC (hold) a seminar in Electronics once a year.
- **2.**Many people (study) abroad thanks to Erasmus exchanges.
- **3.**Mr. Walker (teach) Mathematics in the Engineering faculty.
- **4.**Mandy (carry out) some research in Robotics regularly.
- **5.**Some experiments (cost) a lot of money.
- **6.**The sun always (rise) on the east.
- 7. When we heat metals they (melt).
- **8.**Water and oil (not mix) when put together.
- **9.**Some materials (be) very heavy to carry out.
- 10. This substance, when mixed with water, (cause) a chemical reaction.
- 11. The silicon rods used in the experiment (not weight) more than 10g.
- 12. The sparkplug then (make) the ignition possible.
- **13.** Good scientific reports (provide) useful data for future research.
- 14. While heated glass (become) very brittle.
- 15. Gold and silver (be) precious metals.

EXERCISE 2. Correct the mistakes in the following present simple sentences.

- **1.** I studi English three times a week.
- 2. They always attends the annual meeting.
- **3.** Good Engineering students has a great future in business.
- **4.** Knowledge are as important as professional experience.
- **5.** Doesn't touch that metal plate! You can hurt yourself.
- **6.** Most managers don't likes working at the weekend.
- 7. Precious metals don't are always very expensive.
- **8.** Heat cause steam.
- **9.** A specific team place nuclear waste in safe containers.
- 10. Acid rain kill forests.

EXERCISE 3. Put the following sentences in order.

- 1. The plane first at leaves 6 a.m.
- 2. Reinforced is useful very in cases many glass.
- **3**. The is round earth.
- 4. Moon the goes around the earth.
- 5. An earthquake can damage provoke serious.

1. Present Simple

PRESENT SIMPLE KEY

EXERCISE 1. Give the correct present simple form of the verb in parentheses.

- 1. The UPC holds a seminar in Electronics once a year.
- 2. Many people study abroad thanks to Erasmus exchanges.
- 3. Mr. Walker teaches Mathematics in the Engineering faculty.
- 4. Mandy carries out some research in Robotics regularly.
- 5. Some experiments cost a lot of money.
- **6**. The sun always rises on the east.
- 7. When we heat metals they melt.
- 8. Water and oil don't mix when put together.
- 9. Some materials are very heavy to carry out.
- 10. This substance, when mixed with water, cause a chemical reaction.
- 11. The silicon rods used in the experiment don't weight more than 10g.
- **12**. The sparkplug then makes the ignition possible.
- 13.Good scientific reports provide useful data for future research.
- 14. While heated glass becomes very brittle.
- 15.Gold and silver are precious metals.

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- 2. They always attend the annual meeting.
- **3.** Good Engineering students have a great future in business.
- **4.** Knowledge is as important as professional experience.
- 5. Don't touch that metal plate! You can hurt yourself.
- **6.** Most managers don't like working at the weekend.
- 7. Precious metals aren't always very expensive.
- **8.** Heat causes steam.
- **9.** A specific team places nuclear waste in safe containers.
- 10. Acid rain kills forests.

EXERCISE 3. Put the following sentences in order.

- 1. The first plane leaves at 6 a.m.
- 2. Reinforced glass is very useful in many cases.
- **3**. The earth is round.
- **4**. The moon goes around the earth.
- 5. An earthquake can provoke serious damage.

2. PRESENT CONTINUOUS

The present continuous tense in English is formed by adding a verb in gerund to the verb to be in the present simple tense.

USE	EXAMPLE
1. For actions happening now.	E. What are you doing here? C. Què estàs fent aquí? S.¿Qué estás haciendo aquí?
2. For activities happening around now , but perhaps not at the moment of speaking.	 E. I'm working on a project at the moment. C. Estic treballant en un projecte en aquest moment. S. Estoy trabajando en un proyecto en este momento.
3. To express a temporary activity.	 E. Erik is a student, but he's working as a barman during the holidays. C. L'Erik és estudiant, però està treballant com a bàrman durant les vacances. S. Erik es estudiante pero está trabajando como barman durante las vacaciones.
4. To express planned future arrangements (usually together with time expressions, such as tonight, tomorrow)	E. I'm visiting a customer tomorrow.C. Demà visitaré un client.S. Mañana visitaré un cliente.

SPELLING OF -ING FORMS

most verbs:	Work- working, read-reading,
verbs ending in –e:	Make-making, write-writing
short verbs ending in one vowel + one consonant:	Stop-stopping, sit-sitting, run-running
verbs ending in -ie:	Lie-l ying , die-d ying , tie-t ying

2. Present Continuous 13

PRESENT CONTINUOUS EXERCISES

EXERCISE 1. Write in the –ing form of the following verbs:

INFINITIVE	GERUND
read	
swim	
come	
think	
wait	
rain	
wear	
shine	
smoke	
have	
take	
get	
stop	
run	
begin	

EXERCISE 2. Write the negative form of the following sentences.

- 1. Some Industrial Engineers are working hard for Forum 2003.
- 2. My boss is giving a lecture now.
- 3. Mandy is checking some balance sheets these days.
- 4. Mr. Kennedy is inspecting the goods in the factory floor.
- 5. Most employees are enjoying their holidays by now.

EXERCISE 3. Correct the mistakes in the following sentences.

- 1. David and Terry are studing very hard for the exam.
- 2. The Sullivan's is moving their stuff somewhere else.
- 3. Mary is carring a box of tools.
- 4. Peter and Rob are lieing on the sofa.
- 5. When are your team plaing again?
- 6. Most engineers are aplying for a scholarship to study abroad.
- 7. Some workers is paking items in the packaging department.
- 8. Our management are thinking about giving us a pay rise.

PRESENT CONTINUOUS KEY

EXERCISE 1. Write in the –ing form of the following verbs:

INFINITIVE	GERUND
read	Reading
swim	Swimming
come	Comino
think	Thinking
wait	Waiting
rain	Raining
wear	Wearing
shine	Shining
smoke	Smoking
have	Having
take	Taking
get	Getting
stop	Stopping
run	Running
begin	Beginning

EXERCISE 2. Write the negative form of the following sentences.

- 1. Some Industrial Engineers are not working hard for Forum 2003.
- 2. My boss is not giving a lecture now.
- 3. Mandy is not checking some balance sheets these days.
- 4. Mr. Kennedy is not inspecting the goods in the factory floor.
- 5. Most employees are not enjoying their holidays by now.

EXERCISE 3. Correct the mistakes in the following sentences.

- 1. David and Terry are studying very hard for the exam.
- 2. The Sullivan's are moving their stuff somewhere else.
- 3. Mary is carrying a box of tools.
- 4. Peter and Rob are lying on the sofa.
- 5. When is your team playing again?
- 6. Most engineers are applying for a scholarship to study abroad.
- 7. Some workers are packing items in the packaging department.
- 8. Our management is thinking about giving us a pay rise.

3. Simple Past

3. SIMPLE PAST

The simple past tense in English is used to talk about activities that began and ended in the past. The past means anytime before right now (e.g. something that began and ended 5 minutes ago it should be expressed in the past tense). In Science, the simple past tense is commonly used to describe past research and discoveries and it is usually found in the background section of a research report.

TO BE	REGULAR VERBS	IRREGULAR VERBS
I was	Most verbs just add –ed:	2nd column is used:
You were	Work – work ed	Break - broke - broken
He was		
She was	But after –e, we add –d:	Tom broke a glass.
It was	Like – like d	Tom didn't break it.
We were		Did Tom break it?
You were	Vowel $(a,e,o)+y = -yed$:	
They were	Play – placed	
Sue was in China in 1996.	Consonant +y = -ied:	
Sue wasn't in China	Reply – replied	
Was Sue in China ?		
	1 vowel +1 consonant = 2	
Was not = wasn't	(only in stressed syllables!):	Did not = didn't
Were not = weren't	See: stop – sto pp ed	
	But: wonder - wondered	

EXAMPLES:

VERB TYPE	ENGLISH	CATALAN	SPANISH
	They were tired.	Estaven cansats.	Estaban cansados.
TO BE:			
REGULAR:	Tim played golf	En Tim va jugar a	Tim jugó a golf ayer.
	yesterday.	golf ahir.	
IRREGULAR:	John ran a mile on	En Joan va córrer	Juan corrió una milla
	Friday.	una milla el	el viernes.
		divendres.	

SIMPLE PAST EXERCISES

EXERCISE 1. Write the simple past tense of the following verbs:

INFINITIVE	SIMPLE PAST
arrive	
rain	
watch	
carry	
pass	
live	
study	
rob	
fit	
slip	
develop	
regret	
annoy	
shop	
stay	
shave	
turn	
leave	
hold	
think	
answer	
stand	

EXERCISE 2. Underline the correct form.

- 1. I break / broke a cup last night.
- 2. Ann did not play / played hockey on Saturday.
- 3. I didn't feel / felt very well a week ago.
- 4. The train didn't arrive / arrived on time.
- 5. Mary didn't like / likes her last job.

EXERCISE 3. Make the following sentences interrogative.

- 1. My boss went to Berlin last week.
- 2. Our prototypes were sold within a month.
- 3. Some of the old tests were too difficult.
- 4. My lawyer wrote a long report about the matter.
- 5. Mr. Collins was a famous scientist.

3. Simple Past

SIMPLE PAST KEY

EXERCISE 1. Write the simple past tense of the following verbs:

INFINITIVE	SIMPLE PAST
arrive	arrived
rain	rained
watch	watched
carry	carried
pass	passed
live	lived
study	studied
rob	robbed
fit	fitted
slip	slipped
develop	developed
regret	regretted
annoy	annoyed
shop	shopped
stay	stayed
shave	shaved
turn	turned
leave	left
hold	held
think	thought
answer	answered
stand	stood

EXERCISE 2. Underline the correct form.

- 1. I break / **broke** a cup last night.
- 2. Ann **did not play** / played hockey on Saturday.
- 3. I didn't feel / felt very well a week ago.
- 4. The train **didn't arrive** / arrived on time.
- 5. Mary **didn't like** / likes her last job.

EXERCISE 3. Make the following sentences interrogative.

- 1. **Did** my boss **go** to Berlin last week?
- 2. Were our prototypes sold within a month?
- 3. **Were** some of the old tests too difficult?
- 4. **Did** my lawyer **write** a long report about the matter?
- 5. Was Mr. Collins a famous scientist?

4. THE PRESENT PERFECT AND PAST PERFECT

THE PRESENT PERFECT

The present perfect simple is formed with the <u>auxiliary</u> verb have in the corresponding form for the subject of the sentence, followed by the <u>participle</u> of the <u>main</u> verb.

Example sentences:

- E. Affirmative: I've broken my pencil.
- C. Afirmativa: He trencat el llapis.
- S. Afirmativa: He roto el lápiz.
- E. Negative: I haven't done my homework.
- C. Negativa: No he fet els deures.
- S. Negativa: No he hecho los deberes.
- E. Question: Have you been at the university today?
- C. Pregunta: Has estat a la universitat avui?
- S. Pregunta: ¿Has estado en la universidad hoy?

The most important thing to remember about the present perfect is that it can *never* be used with adverbs which describe finished time periods, such as **yesterday**, **five minutes ago** and **at three o'clock**. If a time adverb is used with the present perfect, it should describe a time period which is unfinished.

THE PAST PERFECT

The Past Perfect tense is formed of two parts: the past tense of the verb *to have (had)* + the past participle of the main verb.

The past perfect is refered to a time earlier than before now. It is used to show that one event happened before another in the past.

Example sentences:

- E. I had worked a lot before my grandmother arrived.
- S. Havia treballat molt abans que arribés la meva àvia.
- C. Había trabajado mucho antes de que llegara mi abuela.

THE PRESENT PERFECT VERSUS PAST PERFECT

EXERCISE 1. Write the present perfect in the following blanks:

- 1. They.....(not fished) building the new social centre yet.
- **2.** She.....(drive) her new car twice.
- **3.** Our friends...... (work) with chromium for two days.
- **4.** We.....(move) into our new house.
- **5.** They.....(not seen) the new computer tools yet.

EXERCISE 2. Fill in the blanks with **for** and **since**:

- 1. We've been at Baker Streetthree times.
- **2.** John has studied English......1975.
- **3.** It has snowedMonday.
- **4.** We haven't had any exams.....a month.
- **5.** Sarah and Joe have lived in Toronto.....many years.

EXERCISE 3. Write yet, already, just or still.

- **1.** Have you studied for your Maths exam.....?
- **2.** We have.....had a call from Philip.
- **3.** Josh hasn't arrived...... I am...... waiting for him.
- **4.** The new aerial has.....worked.
- **5.** My friends have......finished their final project.

EXERCISE 4. Write the present perfect or the past perfect in the following sentences:

- 1. Joan and Carl decided to visit the Blue Mountain after they.....(discuss) a lot about it.
- 2. The third day of our tour, it began to rain after the weather.....(change) a
- 3. We(study) English for many years.
- 4. The boys.....(travel) around the world before they married.
- 5. We.....(think) we should use gold and diamond for finishing the jewel.

THE PRESENT PERFECT VERSUS PAST PERFECT KEY

EXERCISE 1. Write the present perfect in the following blanks:

- 1. They have not finished (not fished) building the new social centre yet.
- 2. She has driven (drive) her new car twice.
- 3. Our friends have worked (work) with chromium for two days.
- **4.** We have moved (move) into our new house.
- 5. They have not seen (not seen) the new computer tools yet.

EXERCISE 2. Fill in the blanks with **for** and **since**:

- 1. We've been at Baker Street for three times.
- 2. John has studied English since 1975.
- **2.** It has snowed since Monday.
- **3.** We haven't had any exams for a month.
- **4.** Sarah and Joe have lived in Toronto for many years.

EXERCISE 3. Write yet, already, just or still.

- 1. Have you studied for your Maths exam yet?
- 2. We have just had a call from Philip.
- 3. Josh hasn't arrived yet. I am just waiting for him.
- **4.** The new aerial has already worked.
- 5. My friends have just finished their final project.

EXERCISE 4. Write the present perfect or the past perfect in the following sentences:

- 1. Joan and Carl decided to visit the Blue Mountain after they had discussed (discuss) a lot about it.
- 2. The third day of our tour, it began to rain after the weather had changed (change) a lot.
- 3. We have studied (study) English for many years.
- 4. The boys had travelled (travel) around the world before they married.
- 5. We have thought (think) we should use gold and diamond for finishing the jewel.

5. Past Continuous 21

5. PAST CONTINUOUS

The **past continuous** is used to "set the scene", or provide (longer) background information.

- E. The young couple was walking home after the party.
- C. La jove parella anava caminant cap a casa després de la festa.
- S. La joven pareja iba caminando hacia su casa después de la fiesta.
- **E**. They were speaking excitedly about their plans.
- C. Estaven parlant emocionadament dels seus plans.
- S. Estaban hablando emocionadamente sobre sus planes.

We tend to use the **past continuous** tense to speak about more temporary situations and actions:

- **E. I was working** in that bookshop for a few days last summer.
- C. Vaig estar treballant en aquella llibreria uns quants dies l'estiu passat.
- S. Estuve trabajando en aquella librería unos días el verano pasado.

PAST CONTINUOUS EXERCISES

EXERCISE 1. Write the past continuous of the following verbs:				
WORK	DREAM	STUDY	RECOVER	
EXERCIS	SE 2. Complete the	e following blanks w	ith the appropriated tens	e:
(call) (wait) while she (me on her cell p	shone from her biolog she said that the profe to me. I couldn't beli	n (call)She said she gy classroom. I asked her it essor was at the front of the leve she (make)	f she e hall lecturing
EXERCIS	SE 3. Complete the	e following sentences	s with simple past or past	continuous:
1. I worke	d (work) very hard	last night.		
2. I was w	orking (work) hard	when the earthquake	e started.	
3. The sun	(rise) whe	n he arrived in Bomb	pay.	
4.They	(have) co	offee when the mail ca	ame.	
5. I	(study) at th	e University of Calif	ornia.	
6. She	(watch) the	game while feeding	the baby.	
7. The co	mpany	(rent) office space i	n that tall building.	
8. When t	the police arrived, t	hey(shout)	at each other.	
9. The sec	cretary(ty	pe) a letter for her bo	SS.	
10.They.	(dance) as	the music(pl	ay).	
11. They	(buy) a ho	use in the suburbs las	st year.	
12. While	e I(write) a letter she was coo	king.	